Report

Landfill Closure
Rose Hill Landfill Superfund Site

Annual Monitoring Report

Year 1: 2008 - 2009

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LANDFILL CLOSURE – ROSE HILL LANDFILL SUPERFUND SITE

ANNUAL MONITORING REPORT
Year 1: 2008-2009

Submitted To:
Rhode Island Department of Environmental Management
Office of Waste Management
Attention: Mr. Gary Jablonski
235 Promenade Street
Providence, Rhode Island 02908

Submitted By:
The Louis Berger Group, Inc.
295 Promenade Street
Providence, Rhode Island 02908

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EXECUTIVE SUMMARY

The Year 1 landfill post-closure monitoring and sampling regimen involved four quarterly sampling events conducted between Spring 2008 and Winter 2009 by The Louis Berger Group, Inc. (Berger) as part of the Long-Term Monitoring Work Plan for the Rose Hill Landfill Superfund Site (Site) located in South Kingstown, Rhode Island. Berger conducted first quarter sampling in April and May of 2008, second quarter sampling in July of 2008, third quarter sampling in October 2008, and fourth quarter sampling in January of 2009.

Groundwater

Groundwater monitoring and sampling was conducted in the first and second quarters. Fourteen monitoring wells and three residential wells were sampled. Samples were analyzed for metals, Volatile Organic Compounds (VOCs) and Semivolatile Organic Compounds (SVOCs). Manganese concentrations exceeded the Project Action Limit (PAL) in eight monitoring wells in both quarters. Arsenic was detected above the PAL in a single well, and cadmium in two wells, during the second quarter monitoring round. No VOCs were detected at concentrations exceeding PALs, and no SVOCs were detected, in either quarterly sampling round.

In the fourth quarter one groundwater sample was collected from an off-site monitoring well and analyzed for alkanes. The purpose of this sample was to determine whether methane might be migrating off-site in groundwater. Both methane and ethane were detected in the groundwater sample; however, these analytes were detected at low levels, below their solubility. Therefore, it is unlikely that that the source of elevated concentrations of methane detected in some of the off-site gas probes is due to methane migrating from the Site in groundwater. A PAL has not been established for alkanes in groundwater.

Surface Water

Surface water field monitoring and sampling was conducted in the first and second quarters. Eight surface water locations were sampled; samples were analyzed for total metals, dissolved metals, and several other analytes. Aluminum was detected in both the total and dissolved metals analysis at concentrations above the PAL in all samples in the first quarter; in the second quarter aluminum was detected above the PAL in five samples in the total metals analysis and three samples in the dissolved metals analysis. The concentration of total iron exceeded the PAL in a single sample in the first quarter and six samples in the second quarter; the concentration of dissolved iron exceeded the PAL in two samples. In the total metals analysis the concentration of lead exceeded the PAL in one sample during both the first and second quarters. The concentration of manganese exceeded the PAL in the dissolved metals for four samples collected during the second quarter. No VOCs were detected at concentrations above established PALs.

Landfill Gas

Monitoring of methane in landfill gas is undertaken to evaluate potential explosion risks and to determine whether landfill gas may be migrating off-site. Methane presents an explosion risk between its lower explosive limit (LEL) of 5% and its upper explosive limit of (UEL) of 15%. The concentration of methane in landfill gas typically ranges from 45%-60%, based on literature values. Field monitoring of gas vents and gas probes at the Site detected concentrations of methane ranging from 0.0% to 87.9%. All gas vents monitored are located on the Site, within the limits of the cap; the average concentration of methane in gas vents was 18.4%. Gas probes are located both on and off-site. The average concentration of methane detected in on-site gas probes was 15.5%, compared to an average concentration of 5.8% in off-site probes.

Four air samples were collected from two on-site landfill vents, one on-site gas probe, and one off-site gas probe during the first, second and third quarters; in the fourth quarter samples were collected from three off-site and one on-site gas probes. These air samples were analyzed for VOCs. The VOCs 1,1-dichloroethane, 1,1-dichloroethene, benzene, chloroform, cis-1,2-dichloroethene, dichlorodifluoromethane, n-hexane, tetrachloroethene, toluene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride were detected above their Project Action Limits (PALs) in one or more samples. Due to the laboratory air sampling results being above the PALs, in accordance with the Long-Term Monitoring Work Plan, a Screen3 Dispersion Modeling was conducted on the sampling results from gas vents. Results of the Screen3 Model concluded that none of the pollutants exceeded the PALs established for the Site.

During the fourth quarter sampling event, landfill gas samples were collected from three on-site gas vents and analyzed at the laboratory for alkanes to confirm the accuracy of field monitoring results. Results of the laboratory analysis for two of the samples were similar to the field monitoring values; however, laboratory analysis of the third detected a methane concentration much lower than that detected with the field monitoring equipment. Due to the results of methane monitoring in Year 1, in Year 2, methane monitoring will take place monthly rather than quarterly to better characterize methane in landfill gas.

1.0 INTRODUCTION

This report summarizes the results of Berger's Year 1 quarterly monitoring and sampling regimen completed as part of the Long-Term Monitoring Work Plan for the Site. The Site location is shown on Figures 1 and 2 in Appendix A. The Site encompasses approximately 70 acres, and includes: an active solid waste transfer facility zoned as public land; a small area of land zoned for commercial use along Transfer Station Road; and privately owned land which was either formerly used for sand and gravel mining and/or waste disposal, or has remained undeveloped. Land use within one mile of the Site is predominantly agricultural and residential.

The Site consists of three distinct areas formerly used for waste disposal: a solid waste area (SWA), a bulky waste area (BWA), and a sewage sludge area (SSA). The SWA is a 27.7-acre area located immediately east of Rose Hill Road between an unnamed tributary to the Saugatucket River and Mitchell Brook. The BWA is a 9.4-acre area located east of the SWA and southwest of the SSA. The SSA is a 9-acre area located in the northeast section of the Site, between Mitchell Brook and the Saugatucket River. The waste materials within these areas were consolidated within the SWA as part of the landfill remedial action conducted between 2004 and 2007.

1.1 Background Information

Several environmental investigations have been conducted at the Site since 1975; these are summarized in Metcalf & Eddy's 1994 Remedial Investigation (RI) and Feasibility Study (FS) Reports and 1991 RI/FS Work Plan. In 1994, Metcalf & Eddy conducted a RI at the Site for the United States Environmental Protection Agency (EPA). The RI investigated the extent of contamination and impact of the Site to public health and the environment. In May 2003, Berger began a quarterly monitoring program as part of the Remedial Design (RD) for Rose Hill Landfill. The results of the 2003-2004 sampling events were presented in Berger's Field Investigation Summary Report (August 2004).

1.2 Objectives

The primary purpose of sampling activities conducted as part of the Remedial Action (RA) post-closure environmental monitoring is to collect additional environmental monitoring data to evaluate the effectiveness of the source control remedy. All monitoring data collected to date will be evaluated and institutional controls, land use, Applicable or Relevant and Appropriate Requirements (ARARs), and other factors potentially affecting the remedy will be reviewed. The additional data on groundwater and surface water will be combined with the extensive database of information collected during the RI/FS and RD.

2.0 SAMPLE COLLECTION

2.1 Groundwater

In accordance with the Long-Term Monitoring Plan, Berger personnel conducted groundwater sampling during the first and second quarters. The monitoring wells sampled are listed in Table 1 (Appendix B). Monitoring well locations are shown on Figure 3 (Appendix A). As part of the groundwater sampling program, samples were also collected from private, residential wells from the following properties, as identified on Figure 3 (Appendix A): Residence #7, Residence #10, and Residence #11. Residential wells were selected for sampling based on historic detections of analytes or proximity to historic detections.

The samples were collected using peristaltic pumps via the EPA's 1996 Low Stress Purging and Sampling Procedure for Collection of Ground Water Samples from Monitoring Wells (Low Flow Method). Monitoring wells MW-07-DO and MW-07-BR were sampled using disposable bailers rather than the peristaltic pump due to difficulty in placing polyethylene tubing down these wells for pumping. The residential wells were collected from accessible spigots after allowing water to flow from the pumps for 30 minutes. The groundwater samples were preserved and stored in appropriate laboratory containers in accordance with the applicable EPA reference methods. Groundwater samples collected for laboratory analysis were placed in coolers on ice for shipment by courier to Alpha Analytical Laboratories (Alpha Labs) in Westborough, Massachusetts. Groundwater samples were analyzed for VOCs, SVOCs, and metals. Laboratory analytical results for groundwater are provided in Section 3.2, complete laboratory reports are contained in Appendix D.

Groundwater samples were monitored in the field for the following parameters: pH, conductivity, dissolved oxygen, turbidity, temperature, and oxidation-reduction potential (ORP), using a Yellow Spring Instruments YSI Model 6820 multi-parameter meter provided by U.S. Environmental Rental of Waltham, Massachusetts. This instrument was calibrated prior to field use. These field parameters were allowed to stabilize prior to sample collection in accordance with the Low Flow Method prior to groundwater sample collection. The results of field monitoring of groundwater are provided in Table 2 in Appendix B. Field parameters were within the expected range for landfill monitoring of groundwater.

2.1.1 First Quarter

Berger personnel conducted first quarter groundwater sampling between April 29 and May 2, 2008. Samples were collected from all monitoring wells as described in Section 2.1. In addition, duplicate samples were collected from monitoring wells MW-04-DO, MW-07-BR, and MW-13-S.

2.1.2 Second Quarter

Berger personnel conducted second quarter groundwater sampling between July 8 and July 11, 2008. Sampling procedures were identical to the first quarter, with the exception that duplicate

samples were collected from monitoring wells MW-04-S and MW-12-S, rather than MW-04-DO and MW-13-S.

2.1.3 Third Quarter

Groundwater samples were not collected during the third quarter monitoring round.

2.1.4 Fourth Quarter

Based on results of landfill gas monitoring conducted in the first through third quarters, Berger collected a single sample of groundwater from monitoring well MW-07-DO during the fourth quarter sampling on January 22, 2009 to investigate whether there is the potential that methane may be migrating in groundwater. This monitoring well was sampled using a disposable bailer rather than a peristaltic pump due to difficulty in placing polyethylene tubing down this well for pumping. The groundwater sample was preserved and stored in an appropriate laboratory container in accordance with the applicable EPA reference methods. The groundwater sample collected for laboratory analysis was placed in a cooler on ice for shipment to New England Testing Laboratory (NetLAB) in North Providence, Rhode Island. Laboratory analytical results for groundwater are provided in Section 3.2.

2.2 Surface Water

Berger personnel conducted first quarter surface water sampling on May 2 and May 5, 2008 and second quarter sampling between July 8 and July 10, 2008 at eight locations along Mitchell Brook (samples SW-09, SW-12, and SW-13), an unnamed tributary to Mitchell Brook (sample SW-01), and the Saugatucket River (samples SW-02, SW-04, SW-06, and SW-17), all of which transect the Site. One duplicate sample was collected from SW-09. Surface water sampling locations are shown on Figure 4 (Appendix A).

Surface water samples were collected directly into sample containers by placing the containers onto an extended plastic rod to collect the samples from near mid-stream. The surface water samples were preserved and stored in appropriate laboratory containers in accordance with applicable EPA reference methods. Surface water samples collected for laboratory analysis were placed in coolers on ice for shipment by courier to Alpha Labs.

Surface water samples were monitored in the field for pH, conductivity, dissolved oxygen, turbidity, temperature, and ORP using a Yellow Spring Instruments YSI Model 6820 multi-parameter meter provided by U.S. Environmental Rental. This instrument was calibrated prior to field use. The results of field monitoring of surface water are provided in Table 3.

Surface water samples were analyzed for total metals, dissolved metals, total organic carbon, cyanide, sulfide, nitrate, nitrogen, total kjehedal nitrogen (TKN) (first quarter only), ammonia, phosphorus, and hardness. Laboratory analytical results for surface water are provided in Section 3.3 and in Table 5.

2.3 Landfill Gas

Berger personnel conducted landfill gas monitoring and sampling during all four quarterly sampling rounds. Landfill gas was monitored at from 29 gas vents and 21 gas probes located both within and outside the SWA. The landfill gas monitoring stations sampled were identified as gas vents GV-01, GV-02, and GV-04 through GV-29; and gas probes GP-01, GP-03, GP-05 through GP-07, GP-10 through GP-19, GP-21, GP-22, GP-26, GP-30, GP-33, and GP-36. Landfill gas sampling locations are shown on Figure 5 (Appendix A).

Landfill gas samples were monitored for in the field methane, carbon dioxide, oxygen, and percent lower explosive limit (LEL) using a LandTek-2000 landfill gas meter provided by U.S. Environmental Rental. The percent of methane in landfill gas in vents ranged from 0.0% to 87.9%, with the highest methane reading occurring in GV-04 during the second quarter. The highest average methane concentration for gas vents also occurred in the second quarter (38.1 %). Methane was detected in all of the gas probes in at least one monitoring event, with the highest concentration of methane detected (71.9%) in GP-07 during the second quarter. Complete results of landfill gas monitoring are provided in Tables 4a and 4b (Appendix B). Table 2-1 below presents a summary of landfill gas methane field monitoring.

Table 2-1: Summary of Landfill Gas Field Monitoring Data (Methane)

SAMPLING EVENT	GAS VENTS		GAS PROBES		COMBINED GAS VENTS AND PROBES	
	MEAN (%)	RANGE (%)	MEAN (%)	RANGE (%)	MEAN (%)	RANGE (%)
Q1	4.9	0.0-29.6	10.4	0.0-46.3	7.3	0.0-46.3
Q2	38.1	0.1-87.9	10.6	0.1-71.9	26.3	0.1-87.9
Q3	19.4	0.0-58.3	11.4	0.0-48.4	15.9	0.0-58.3
Q4[1]	9.6	0.0-19.1	9.3	0.0-57.6	10.5	0.0-57.6
Year 1	16.3	0.0-87.9	10.4	0.0-71.9	14.0	0.0-71.9

2.3.1 First Quarter

Berger personnel conducted first quarter sampling on April 30, 2008. In addition to the field monitoring described above, a subset of four sample locations were selected for laboratory analysis for VOCs using Summa® canisters for sample collection, in accordance with the sample collection procedures outlined in Berger's Quality Assurance Project Plan. Samples were collected from gas vents GV-03 and GV-09 and probes GP-11 and GP-21. Samples were sent to Alpha for analysis.

[1] Vents were monitored in both the closed and open positions; mean and range based on highest methane reading from the two readings.

2.3.2 Second Quarter

Berger personnel conducted second quarter sampling on July 7 and 8, 2008. Sampling procedures were identical to those described above in Section 2.3.1.

2.3.3 Third Quarter

Berger personnel conducted third quarter sampling on October 21, 2008. Sampling procedures were identical to those described above in Section 2.3.1.

2.3.4 Fourth

Berger personnel conducted fourth quarter sampling on January 21 and 22, 2009. Sampling procedures were generally identical to those described above, with a few differences. In the fourth quarter, landfill gas was monitored at gas vents with the vents in both the open position, as in prior sampling rounds, as well as in the closed position. Also, in the fourth quarter gas vents were not sampled; instead, probes GP-12 and GP-14 were sampled in addition to GP-11 and GP-21. In addition, a subset of three sample locations (GV-04, GP-07, and GP-11) was selected for laboratory analysis for alkanes using Summa® canisters for sample collection. These samples were sent to NETLAB for analysis.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Project Action Limits and Data Quality Assessment

Sampling of environmental media, including groundwater, surface water, and landfill gas was completed as part of the Long-Term Monitoring Plan. A PAL is presented for each compound on Tables 5 through 7 (in Appendix B). The PALs have been identified based on applicable regulatory requirements that are designed to be protective of human health and the environment. There are several regulatory requirements for each medium. The intent of the PAL is not to supersede the risk assessment or remedial action objective processes which are integral parts of developing cleanup standards for the Site, but simply to provide a check that the data produced will meet Project Quantitation Limits (PQLs) for contaminants of concern.

Groundwater: PALs for groundwater are based on EPA drinking water standards (e.g., Maximum Contaminant Levels).

Surface Water: PALs for surface water are based on RIDEM (2006) Ambient Water Quality Criteria and EPA national Recommended Water Quality Criteria.

Landfill Gas: PALs for landfill gas are based on RIDEM Air Pollution Control Regulation No. 22 for Air Toxics.

3.2 Groundwater

The results of groundwater quality sampling are summarized in Table 5 in Appendix B. Copies of all laboratory analytical reports are provided in Appendix D. The results from the groundwater sampling were compared to the PALs for groundwater. Groundwater analytical results for each parameter are described below.

3.2.1 Total Metals

Metals detected in groundwater samples included aluminum, antimony, arsenic, cadmium, chromium, lead, manganese, sodium, vanadium, and zinc. Manganese was detected above the laboratory reporting limit in all monitoring wells and in two residential wells during both the first and second quarter sampling rounds. Manganese concentrations exceeded the PAL of 0.3 milligrams per liter (mg/L) in all eight monitoring wells during each sampling round, with the highest concentration detected during the second quarter sampling round in MW-12-DO (39.16 mg/L). The average concentration of manganese in samples where the analyte was detected in the first quarter was 1.89 mg/L, this increased to 3.04 mg/L in the second quarter. During the pre-design investigation, manganese was detected in 17 wells and exceeded the PAL in ten wells; the average concentration of manganese was 2.03 mg/L.

Aluminum was detected above the laboratory reporting limit in five monitoring wells during the first quarter and in six monitoring wells and two residential wells during the second quarter. The

concentration of aluminum did not exceed the PAL of 3.7 mg/L in any of these samples. The highest concentration of aluminum was 1.58 mg/L, in the sample collected from MW-07-DO during second quarter sampling. The average concentration of aluminum decreased from 0.34 mg/L in the first quarter to 0.22 mg/L in the second quarter. In the pre-design field investigation the PAL for aluminum was not exceeded in any of the samples collected, the average concentration of aluminum was 0.26 mg/L.

Arsenic was detected above the laboratory limit in five monitoring wells in the first quarter and in nine monitoring wells during the second quarter. The concentration of arsenic detected exceeded the PAL of 0.01 mg/L in a single sample collected during the second quarter (0.02 mg/L in MW-12-DO). The average concentration of this metal in both the first and second quarters was 0.0025. Arsenic was not detected above the laboratory reporting limit in any of the samples collected during the pre-design investigation.

Zinc was detected above the laboratory reporting limit in two monitoring wells and one residential well in the first quarter, and in five monitoring wells and two residential wells in the second quarter. The concentration of zinc did not exceed the PAL of 11.0 mg/L in any sample. In the pre-design investigation zinc was detected below the PAL in samples from several monitoring wells and a single residential well.

Chromium was detected above the laboratory reporting limit in three monitoring wells during the first quarter and two wells during the second quarter. The concentration did not exceed the PAL of 0.11 mg/L in any of the samples in which it was detected. During the pre-design field investigation, chromium was detected below the PAL in a single well, MW-03-BR.

Lead was detected at concentrations below the PAL of 0.015 mg/L in two samples collected from monitoring wells and one from a residential well during the first quarter; and in one monitoring well and one residential well sample collected during the second quarter The maximum concentration of lead detected was 0.01 mg/L in RES #11 during the first quarter. Lead was not detected above the laboratory limit during the pre-design investigation.

In both quarters, vanadium was detected above the laboratory reporting limit in two monitoring wells (MW-07-DO and MW-07-BR) and in one residential well (RES #11 in the first quarter and RES #7 in the second quarter). The concentration of vanadium did not exceed the PAL of 0.26 mg/L in any sample. The maximum concentration of vanadium detected was 0.0047 mg/L in the sample collected from MW-07-BR in the first quarter sampling. In the pre-design field investigation vanadium was detected at a concentration below the PAL in two monitoring wells (MW-03-BR and MW-07-BR).

Antimony was detected above the laboratory reporting limit in one monitoring well (MW-07-DO) during the first quarter sampling. The concentration did not exceed the PAL of 0.006 mg/L. Antimony was not detected above the laboratory reporting limit in any of the samples collected during the pre-design investigation.

Cadmium was detected in above the laboratory reporting limit in a single sample during the second quarter sampling (MW-12-S). The concentration of cadmium in this sample did not exceed the PAL of 0.005 mg/L. Cadmium was not detected during the pre-design investigation.

Sodium was detected in all wells during the first quarter and in all wells except for a single residential well during second quarter sampling. Concentrations ranged from 5.2 to 80 mg/L, with an average concentration of 21.8 mg/L in the first quarter and 21.5 mg/L in the second quarter. A PAL has not been established for sodium. During the pre-design investigation, sodium was detected in all wells; concentrations ranged from 2.0 mg/L to 69 mg/L.

Table 3-1 below presents a summary of metals testing in groundwater field sampling.

Table 3-1: Summary of Laboratory Analytical Results: Metals in Groundwater

ANALYTE	PAL (mg/L)	MEAN CONCENTRATION[1] (mg/L)							
		Q1		Q2		Year 1		Pre-Design	
		Mean	(#)	Mean	(#)	Mean	(#)	Mean[2]	(#)
Aluminum	3.7	0.336	(5)	0.222	(8)	0.269	(13)	0.259	(7)
Antimony	0.006	0.0014	(1)	<MQL	(0)	0.0014	(1)	<MQL	(0)
Arsenic	0.01	0.0025	(5)	0.0025	(9)	0.0025	(14)	<MQL	(0)
Cadmium	0.005	<MQL	(0)	**0.0127**	(1)	**0.0127**	(1)	<MQL	(0)
Chromium	0.11	0.0022	(3)	0.0027	(2)	0.0022	(5)	0.200	(1)
Lead	0.15	0.0046	(3)	0.0015	(2)	0.0034	(5)	<MQL	(0)
Manganese	0.3	**1.89**	(8)	**3.04**	(8)	**2.46**	(16)	**2.03**	(24)
Sodium	NE	22	(17)	22	(15)	22	(32)	21	(32)
Vanadium	0.26	0.0035	(3)	0.0028	(3)	0.0031	(6)	0.0055	(2)
Zinc	11	0.04	(3)	0.03	(8)	0.03	(11)	0.06	(3)

Notes:
[1] Mean concentration calculated from positive results only
[2]Four rounds of sampling were conducted and additional monitoring wells were sampled during the pre-design investigation; data from first and second quarters for wells sampled post-closure only.
(#) Number of positive analytical results
Bold Text indicates exceeds PAL
<MQL – Less than method quantitation limit

3.2.2 Volatile Organic Compounds

VOCs detected in groundwater samples included 1,1-dichloroethane, benzene, chlorobenzene, chloroethane, cis-1,2-dichloroethane, ethyl ether, isopropylbenzene, and methyl tert-butyl ether. During the pre-design field investigation all of these VOCs and the additional compounds 1,2,4-trimethylbenzene, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,4-dichlorobenzene, 2-butanone, acetone, ethylbenzene, n-propylbenzene, o-xylene, p/m-xylene, tetrahydrofuran, toluene, trans-1,2-dichlroethene, trichloroethene, and vinyl chloride.

The laboratory detection limit (10 µg/L) for tetrahydrofuran exceeded the PAL of 8.8 µg/L. All tetrahydrofuran results for groundwater were below the laboratory detection limit.

Average concentrations of all VOCs detected were generally similar for both sampling rounds. Average concentrations of the VOCs chlorobenzene, benzene, chloroethane, and isopropylbenzene declined slightly between the first and second quarter sampling rounds, while the average concentration of 1,1-dichloroethane, cis-1,-2-dichlroethene, ethyl ether, and methyl-tert-butyl ether increased slightly.

No VOCs were detected at concentrations exceeding PALs. In the pre-design investigation, concentrations of 1,1-dichlroethane, benzene, trichloroethene, and vinyl chloride were detected in concentrations above PALs in one or more monitoring wells.

A summary of VOCs detected in groundwater field sampling is presented in Table 3-2.

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Table 3-2: Summary of Laboratory Analytical Results: VOCs in Groundwater

ANALYTE	PAL (µg/L)	MEAN CONCENTRATION[1] (µg/L)							
		Q1		Q2		Year 1		Pre-Design	
		Mean	(#)	Mean	(#)	Mean	(#)	Mean[2]	(#)
1,1-Dichloroethane	800	1.16	(2)	1.45	(1)	1.27	(3)	3.18	(15)
1,2-Dichlorobenzene	600	<MQL	(0)	<MQL	(0)	<MQL	(0)	2.50	(1)
1,4-Dichlorobenzene	75	<MQL	(0)	<MQL	(0)	<MQL	(0)	5.00	(4)
2-Butanone	1900	<MQL	(0)	<MQL	(0)	<MQL	(0)	6.10	(1)
Benzene	5	1.67	(6)	1.20	(5)	1.45	(11)	3.34	(15)
Chlorobenzene	100	2.28	(6)	1.87	(4)	2.11	(10)	4.99	(14)
Chloroethane	21,000	10.9	(5)	6.57	(5)	8.73	(10)	38.84	(11)
Cis-1,2-Dichloroethene	70	0.54	(1)	0.69	(1)	0.61	(2)	5.87	(10)
Ethyl ether	1,200	4.2	(4)	4.44	(4)	4.34	(8)	11.55	(16)
Isopropylbenzene	660	0.68	(2)	0.55	(2)	0.62	(4)	0.91	(10)
Methyl tert-butyl ether	12	2.4	(1)	2.6	(1)	2.5	(2)	1.57	(6)
n-Propylbenzene	NE	<MQL	(0)	<MQL	(0)	<MQL	(0)	0.58	(5)
o-Xylene	1400	<MQL	(0)	<MQL	(0)	<MQL	(0)	1.20	(5)
p/m-Xylene	1400	<MQL	(0)	<MQL	(0)	<MQL	(0)	2.10	(2)
Tetrahydrofuran	8.8	<MQL	(0)	<MQL	(0)	<MQL	(0)	**36.50**	(2)
Toluene	1000	<MQL	(0)	<MQL	(0)	<MQL	(0)	1.42	(3)
Trans-1,2-Dichloroethane	100	<MQL	(0)	<MQL	(0)	<MQL	(0)	0.77	(1)
Trichloroethene	5	<MQL	(0)	<MQL	(0)	<MQL	(0)	0.74	(5)
Vinyl Chloride	2	<MQL	(0)	<MQL	(0)	<MQL	(0)	**13.46**	(8)

Notes:
[1] Mean concentration calculated from positive results only
[2]Four rounds of sampling were conducted and additional monitoring wells were sampled during the pre-design investigation; data from first and second quarters for wells sampled post-closure only.
(#) Number of positive analytical results
Bold Text indicates exceeds PAL
<MQL – Less than method quantitation limit
NE- None Established

3.2.3 Semi-Volatile Organic Compounds

No SVOC were detected in groundwater samples collected during the first or second quarters. For several analytes the project quantification limit (PQL) was set higher than the PAL.

During the pre-design field investigation the SVOC bis(2-ethylhexyl)phthalate was detected at concentrations exceeding the PAL of 6 µg/L in monitoring wells MW-07-DO (92 µg/L), MW-

07-BR (16 µg/L), and MW-12-DO (11 µg/L). Also during the pre-design field investigation, 1,4-dichlorobenzene was detected at a concentration exceeding the PAL of 0.75 µg/L in a sample from MW-07-DO.

3.3 Surface Water

The results of surface water quality sampling are summarized in Table 6 in Appendix B. Copies of all laboratory analytical reports are provided in Appendix D. The results from the surface water sampling were compared to the PALs for surface water. Surface water analytical results for each parameter are described below.

3.3.1 Total Metals

Total metals detected in surface water samples included aluminum, arsenic, chromium, copper, iron, lead, manganese, nickel, and zinc. Aluminum was detected above the laboratory reporting limit in all samples. The concentration of this metal exceeded the PAL of 0.087 mg/L in all samples collected during the first quarter and in five samples collected during the second quarter. The highest concentration detected was 0.98 mg/L in sample SW-02 during the first quarter. The average concentration of aluminum decreased from 0.27 mg/L to 0.19 mg/L between the first and second quarters. In the pre-design investigation, aluminum was detected above the PAL in all except three samples (two samples from SW-01 and a single sample from SW-12); the highest concentration was from a sample taken at SW-02 (0.74 mg/L). The average concentration of aluminum in the pre-design investigation was 0.23 mg/L.

Iron was detected in all samples collected. The concentration of iron exceeded the PAL of 1.0 mg/L in a single sample during the first quarter and in six samples collected in the second quarter. The highest concentration of iron detected occurred during the first quarter sampling round, 1.17 mg/L in the sample from SW-06, and the average concentration of iron increased from 0.45 mg/L to 2.7 mg/L between sampling rounds. In the pre-design investigation, iron was detected above the PAL in one or more samples from five sampling locations, with the highest concentration of 4.6 mg/L occurring in a sample from SW-06, the average concentration of iron was 1.39 mg/L.

Manganese was detected above the laboratory limit in all samples. The concentration of manganese exceeded the PAL of 0.3 mg/L in three of the samples collected during the second quarter, the highest concentration, 0.67 mg/L, was detected in SW-17. The average concentration of manganese increased from 0.07 mg/L in the first quarter to 0.43 mg/L in the second quarter. During the pre-design investigation, manganese was detected above the PAL in one or more samples at four locations, and was detected below the PAL in all other samples; the average concentration was 0.18 mg/L.

Lead was detected in two samples during the first quarter and in seven samples during the second quarter. The concentration of lead exceeded the PAL of 0.015 mg/L in one sample, SW-01, during both sampling rounds, with the highest concentration, 0.06 mg/L, detected during the second quarter. In the pre-design investigation, lead was only detected in samples from SW-01; two of the four samples from this location exceeded the PAL (0.025 mg/L and 0.026 mg/L).

Zinc was detected above the laboratory limit in two samples collected in the first quarter and in all samples collected in the second. None of the samples contained zinc in concentrations exceeding the PAL of 5.0 mg/L. The maximum concentration detected was 0.17, in SW-02 during the first quarter. Zinc was detected below the PAL in one of the samples from SW-04 and one of the samples from SW-09 during the pre-design investigation.

Copper was detected in three samples in the first quarter and seven samples in the second quarter. None of the samples collected exceeded the PAL of 1.3 mg/L. The maximum concentration of this analyte detected was 0.0016, collected from SW-02 during first quarter sampling. Copper was not detected in any samples collected during the pre-design investigation.

Nickel was detected below the PAL of 4.6 mg/L in two samples during the first quarter and in three samples in the second quarter. The highest concentration of nickel detected was 0.0009 mg/L in SW-12 during the second quarter. During the pre-design investigation nickel was not detected in any samples.

Arsenic was detected in a single sample, SW-01, during both the first and second quarters at a concentration below the PAL of 0.15 mg/L. The highest concentration, 0.0026 mg/L occurred in the second quarter. Arsenic was not detected above the laboratory limit in any samples during the pre-design investigation.

Chromium was detected in single sample, collected from SW-17 in the second quarter, at a concentration below the PAL of 0.0110 mg/L. Chromium was not detected during the pre-design investigation.

A summary of metals testing in surface water samples is presented in Table 3-3 below.

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Table 3-3: Summary of Laboratory Analytical Results: Total Metals in Surface Water

ANALYTE	PAL (mg/L)	MEAN CONCENTRATION[1] (mg/L)							
		Q1		Q2		Year 1		Pre-Design	
		Mean	(#)	Mean	(#)	Mean	(#)	Mean	(#)
Aluminum	0.0870	**0.2723**	(8)	**0.1946**	(8)	**0.2306**	(16)	**0.2307**	(14)
Arsenic	0.1500	0.0012	(1)	0.0026	(1)	0.0019	(2)	<MQL	(0)
Chromium	0.0110	0.0000	(0)	0.0008	(1)	0.0008	(1)	<MQL	(0)
Copper	1.3	0.0011	(3)	0.0010	(7)	0.0010	(1)	<MQL	(0)
Iron	1.0	0.4463	(8)	**2.1706**	(8)	**1.5564**	(16)	**1.39**	(15)
Lead	0.0150	0.0130	(2)	0.0096	(7)	0.0110	(9)	0.0180	(2)
Manganese	0.3000	0.0688	(8)	**0.4337**	(8)	0.2467	(16)	0.1807	(15)
Nickel	4.6	0.0006	(2)	0.0009	(3)	0.0008	(5)	<MQL	(0)
Zinc	5.0	0.0580	(2)	0.0217	(8)	0.0240	(10)	0.0150	(2)

Notes:
[1] Mean concentration calculated from positive results only
[2]Four rounds of sampling were conducted and additional surface water locations were sampled during the pre-design investigation; data from first and second quarters for wells sampled post-closure only.
(#) Number of positive analytical results
Bold Text indicates exceeds PAL
<MQL – Less than method quantitation limit

3.3.2 Dissolved Metals

Dissolved metals detected in surface water samples included aluminum, arsenic, chromium, copper, iron, lead, manganese, nickel, and zinc. Aluminum was detected in eight samples in the first quarter and seven samples in the second quarter. The concentration of this metal was above the PAL of 0.087 mg/L in all samples collected in the first quarter and in three samples collected in the second quarter. The highest concentration of aluminum detected was 0.19 mg/L, detected during the first quarter in SW-02. The average concentration of aluminum detected decreased from 0.15 mg/L in the first quarter to 0.08 mg/L in the second quarter. In the pre-design investigation, aluminum exceeded the PAL in one or more samples from all wells except SW-01, with the highest concentration (0.26 mg/L) occurring in one of the samples from SW-12.

Manganese was detected in all samples collected. The concentration of manganese detected exceeded the PAL of 0.30 mg/L in three of the samples collected during the second quarter; the highest concentration was 1.41 mg/L in SW-12. The average concentration of manganese increased from 0.07 mg/L to 0.33 mg/L between the first and second quarters. During the pre-design investigation manganese was detected in all but one sample; the PAL was exceeded in samples collected at four locations. The average concentration of manganese in the pre-design investigation was 0.15 mg/L.

Iron was detected in seven samples during the first quarter and eight samples in the second quarter. The concentration of iron exceeded the PAL of 1.0 mg/L in two samples collected during the second quarter, with the highest concentration detected in SW-09 (2.20 mg/L). The average concentration of iron increased from 0.31 mg/L to 0.59 mg/L between the two sampling rounds. During the pre-design investigation, iron was detected above the PAL in two samples from SW-12 and one sample from SW-09.

Copper was detected in two samples during the first quarter and in seven samples during the second quarter. The concentration of copper in all samples was below the PAL of 1.3 mg/L, the highest concentration detected was 0.0018 mg/L, detected during the first quarter in SW-13. During the pre-design investigation, copper was detected at a concentration below the PAL in two samples.

Zinc was detected in two samples in the first quarter and six samples in the second quarter. The concentration of zinc did not exceed the PAL of 5.0 mg/L in any sample. The maximum concentration of zinc detected was 0.11 mg/L in SW-02 during the first quarter. During the pre-design investigation, zinc was detected at concentrations below the PAL in one sample from SW-04, one from SW-09, and two samples from SW-12.

Nickel was detected below the PAL of 4.6 mg/L in four samples during the first quarter and two samples in the second quarter. The highest nickel concentration was 0.0087 mg/L in SW-17 during first quarter sampling. Nickel was not detected in any samples during the pre-design investigation.

Chromium was detected below the PAL of 0.11 mg/L in three samples (SW-01, SW-02, and SW-17) during first quarter sampling. Chromium was not detected in any samples during second quarter sampling or during the pre-design investigation.

Lead was detected in two samples during first quarter sampling and five samples during second quarter sampling. The concentration of lead exceeded the PAL of 0.015 in a single sample, SW-01 (0.025 mg/L); this location is upgradient of the Site. Lead was not detected in any samples during the pre-design investigation.

Arsenic was detected in a single sample collected during the second quarter. The concentration of arsenic detected was below the PAL of 0.1500. In the pre-design investigation, arsenic was not detected.

A summary of dissolved metals testing in surface water field sampling is presented in Table 3-4 below.

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Table 3-4: Summary of Laboratory Analytical Results: Dissolved Metals in Surface Water

ANALYTE	PAL (mg/L)	MEAN CONCENTRATION[1] (mg/L)							
		Q1		Q2		Year 1		Pre-Design	
		Mean	(#)	Mean	(#)	Mean	(#)	Mean[2]	(#)
Aluminum	0.0870	**0.1480**	(8)	0.0840	(7)	**0.1222**	(15)	**0.1480**	(10)
Arsenic	0.1500	<MQL	(0)	0.0018	(1)	0.0018	(1)	<MQL	(0)
Chromium	0.0110	0.0013	(3)	<MQL	(0)	0.0013	(3)	<MQL	(0)
Copper	1.3	0.0014	(2)	0.0012	(7)	0.0012	(9)	0.0100	(2)
Iron	1.0	0.3129	(7)	0.5868	(8)	0.4827	(15)	0.4008	(13)
Lead	0.0150	0.0131	(2)	0.0034	(5)	0.0066	(7)	0.2430	(3)
Manganese	0.3000	0.0726	(8)	**0.3295**	(8)	0.2021	(16)	0.1487	(15)
Nickel	4.6	0.0026	(4)	0.0006	(2)	0.0020	(6)	<MQL	(0)
Zinc	5.0	0.0580	(2)	0.0122	(6)	0.0240	(8)	0.0125	(4)

Notes:
[1] Mean concentration calculated from positive results only.
[2]Four rounds of sampling were conducted and additional monitoring wells were sampled during the pre-design investigation; data from first and second quarters for wells sampled post-closure only.
(#) Number of positive analytical results
Bold Text indicates exceeds PAL
<MQL – Less than method quantitation limit

3.3.3 Other Analytes

Total organic carbon was detected in all surface water samples, with the highest concentration of 10.0 mg/L detected in sample SW-01 during the second quarter. No PAL has been established for total organic carbon. In the pre-investigation phase, total organic carbon was also detected in all samples, with the highest concentration of 10.0 mg/L occurring in samples collected at SW-04, SW-07, and SW-12.

Ammonia was detected in two samples during the second quarter sampling. No PAL has been established for ammonia. The highest concentration detected was 0.45 mg/L in SW-06. During the pre-design investigation ammonia was detected in at least one of the samples collected at five sampling locations.

Cyanide was not detected above the laboratory reporting limit in any of the samples. In the pre-design investigation, cyanide exceeded the PAL of 0.0052 mg/L one sample collected from four different locations (SW-07, SW-09, SW-13, and SW-15).

Nitrate was detected in all samples during the first quarter and seven samples in the second quarter. The concentration of nitrate did not exceed the PAL (10 mg/L) in any sample; the maximum concentration detected was 0.86 mg/L in SW-02 during the first quarter. The average concentration of nitrate was lower in the first quarter (0.31 mg/L) than in the second (0.45 mg/L).

Nitrate was detected at concentrations below the PAL at all sample locations during the pre-design investigation; the average concentration was 0.34 mg/L.

Phosphorus was detected in six samples during the first quarter and in all samples from the second quarter. The maximum concentration of phosphorus detected was 0.03 mg/L, detected during the first quarter in SW-02; a PAL has not been established for phosphorus. The average concentration of phosphorus increased from 0.02 mg/L to 0.04 mg/L between sampling rounds. No data for phosphorus are available from the pre-design investigation.

A summary of other analytes in surface water fields sampling is presented in Table 3-5 below.

Table 3-5: Summary of Laboratory Analytical Results: Other Analytes

ANALYTE	PAL (mg/L)	MEAN CONCENTRATION[1] (mg/L)							
		Q1		Q2		Year 1		Pre-Design	
		Mean	(#)	Mean	(#)	Mean	(#)	Mean	(#)
TOC	NE	6.3	(8)	4.7	(8)	5.6	(16)	**5.8**	(15)
Ammonia	NE	<MQL	(0)	1.31	(2)	1.31	(2)	0.81	(7)
Nitrate	10	0.31	(8)	0.45	(7)	0.39	(15)	0.34	(9)
TKN	NE	0.56	(2)	NA	(0)	0.56	(2)	NA	
Phosphorus	NE	0.02	(6)	0.04	(8)	0.03	(14)	NA	
Hardness	NE	12	(8)	20	(8)	17	(16)	<MQL	
Sulfide	NE	<MQL	(0)	<MQL	(0)	<MQL		<MQL	

Notes:
[1] Mean concentration calculated from positive results only
(#) Number of positive analytical results
TOC – Total Organic Carbon
TKN – Total Kjeldahl Nitrogen
<MQL – Less than method quantitation limit
NE – not established
NA – not analyzed

3.4 Landfill Gas

The results of landfill gas quality sampling are summarized in Table 7 in Appendix B. Copies of all laboratory analytical reports are provided in Appendix D. The results from the landfill gas sampling were compared to the PALs for landfill gas; analytical results are described below.

3.4.1 Volatile Organic Compounds

The VOCs detected in landfill gas samples included 1,1,1-trichloroethane, 1,1-dichloroethane, 1-1-dichloroethene, 2-butanone, benzene, carbon disulfide, chloroethane, chloroform, chloromethane, cis-1,2-dichloroethene, cyclohexane, dichlorodifluoromethane, Freon-114, methylene chloride, p/m-xylene, o-xylene, n-hexane, propylene, tetrachloroethene, toluene, trans-1,2-dichloroethene, trichlorofluoromethane, and trichloroethene, and vinyl chloride.

N-hexane was detected in all samples; the concentration detected exceeded the PAL of 50 parts per billion by volume (ppbv) in nine samples. The highest concentration of n-hexane detected (495 ppbv) occurred in GP-11 in the fourth quarter. The average concentration of n-hexane for all quarters was 152 ppbv, three times the PAL.

The VOC 1,1-dichloroethane was detected above the laboratory limit in nine samples. All nine of these samples exceeded the PAL, which is set at 0.1 ppbv for this potential occupational carcinogen. Because the laboratory reporting limit was set above the PAL for other samples, it is possible the PAL was exceeded in one or more of the other seven samples. The maximum concentration of this analyte detected was 303 ppbv, detected in GV-03 in the second quarter. The average concentration of this VOC for all quarters is 87.1, well above the PAL.

The potential occupational carcinogen vinyl chloride was detected in 15 samples, and exceeded the PAL of 40 ppbv in nine samples. The highest concentration detected was 11,400 ppbv, in GV-3 during third quarter sampling. The average concentration of vinyl chloride detected was 1,712 ppbv.

The VOC dichlorodifluoromethane was detected in 13 samples; the concentration detected exceeded the PAL of 100 ppbv in seven of these samples. The average concentration of this analyte was 282 ppbv, with a maximum concentration of 1,300 ppbv detected during the first quarter in GP-11.

Benzene was detected in 11 samples. The concentration detected exceeded the PAL, 9 ppbv, in six samples. The highest concentration detected was 83.9 ppbv in GP-11 during first quarter sampling. The average concentration of benzene was 26.1 ppbv.

The VOC cis-1,2-dichloroethene was detected in 11 samples and exceeded the PAL of 200 ppbv in four samples. The maximum concentration of this analyte detected occurred in GV-3 during third quarter sampling. The average concentration detected was 2,139 ppbv.

The analyte 1,1-dichloroethene was detected in three samples; all three of these samples exceeded the PAL of 0.57 ppbv. The highest concentration detected was 251 ppbv, in GP-11 during first quarter sampling. The average concentration detected was 117.3 ppbv.

Chloroform was detected in three samples; the concentration of this VOC exceeded the PAL of 0.04 ppbv in all of these samples. For the remaining samples, the laboratory limit was set above the PAL; therefore, there is the potential that the PAL was exceeded in other samples. The maximum concentration detected was 7.82 ppbv in GV-3 during second quarter sampling. The average concentration detected was 4.64 ppbv.

Trichloroethene was detected in 11 samples. The concentration of trichloroethene in two of these samples exceeded the PAL of 90 ppbv. The highest concentration detected was 1,720 ppbv, detected during third quarter sampling in GV-3. The average concentration of trichloroethene detected was 208 ppbv.

Tetrachloroethene was detected in two samples at concentrations exceeding the PAL of 0.03 ppbv. While this VOC was not detected in any other samples, the laboratory detection limit was

higher than the PAL, therefore it may have been exceeded in other samples. The maximum concentration of this VOC was 227 ppbv in GV-3 during third quarter sampling; the average concentration was 114 ppbv.

Toluene was detected in 13 samples. The concentration of toluene exceeded its PAL of 100 ppbv in a single sample; 297 ppbv in GP-11 during the fourth quarter. The average concentration detected was 52.1 ppbv.

The VOC trans-1,2-dichloroethene was detected in four samples. A single sample collected from GV-3 during second quarter sampling exceeded the PAL of 20 ppbv (30.2 ppbv). The average concentration of this VOC was 10.0 ppbv.

The VOC cyclohexane was detected in 14 samples; 2-butanone in 13; chloroethane in 12; Freon-114 in nine; carbon disulfide and chloromethane in seven; 1,1,1-trichloroethane and methylene chloride in four; o-xylene, propylene, and trichlorofluoromethane in two, and p/m xylene in one. None of these VOCs were detected at concentrations exceeding their respective PALs.

During the pre-design investigation, landfill gas was also sampled at four stations; however, the locations of these stations did not correspond to those sampled during this investigation. During the pre-design investigation, the VOCs 1,1,1,-Trichall VOCs detected during the current round of sampling were detected, with the exception of carbon disulfide, chloroform, methylene chloride, n-hexane, propylene, tetrachloroethene, trichlorofluoromethane, cyclohexane, and 2-butanone. However, the samples collected during the pre-design were not analyzed for cyclohexane and 2-butanone, so it is unknown whether these VOCs were present in the samples. The VOCs ethylbenzene, 1,2,4-trimethylbenzene and 1,3,5-trimetylbenzene were detected during the pre-design investigation, but were not detected during this round of sampling. In the pre-design investigations, the VOCs 1,1-dichlorethane, 1,1-dichlorethene, benzene, cis-1,2-dichloroethene, dichlorodifluoromethane, toluene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride exceeded the PAL in one or more samples.

A summary of VOCs detected in landfill gas field sampling is presented in Table 3-6 below.

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Table 3-6: Summary of Laboratory Analytical Results: VOCs in Landfill Gas

ANALYTE	PAL (µg/L)	MEAN CONCENTRATION[1] (µg/L)											
		Q1		Q2		Q3		Q4		Year 1		Pre-Design	
		Mean	(#)	Mean	(#)	Mean	(#)	Mean	(#)	Mean	(#)	Mean	(#)
1,1,1-Trichloroethane	700	24.0	(2)	102	(1)	64.1	(1)	<MQL	(0)	53.5	(4)	9.80	(2)
1,1-Dichloroethane	0.1	**23.9**	(2)	**194**	(2)	**83.7**	(2)	**60.2**	(3)	**87.1**	(9)	45.6	(3)
1,1-Dichloroethene	0.57	**251**	(1)	**40.3**	(1)	**60.6**	(1)	<MQL	(0)	**117.3**	(3)	179	(1)
2-Butanone	1,000	12.5	(3)	254	(4)	55.3	(3)	5.2	(3)	94.9	(13)	NA	
Benzene	9	**29.7**	(3)	**20.0**	(3)	**19.7**	(2)	**33.0**	(3)	**26.1**	(11)	71.58	(3)
Carbon disulfide	200	2.0	(1)	4.4	(3)	1.1	(2)	0.2	(1)	2.5	(7)	<MQL	(0)
Chloroethane	4,000	514.1	(4)	481	(3)	790	(2)	212	(3)	476	(12)	94.5	(3)
Chloroform	0.04	**5.86**	(1)	**7.82**	(1)	<MQL	(0)	**0.23**	(1)	**4.64**	(3)	<MQL	(0)
Chloromethane	200	2.3	(1)	5.2	(3)	1.3	(2)	0.2	(1)	3.0	(7)	13.6	(7)
Cis-1,2-Dichloroethene	200	**1,064**	(2)	**2,981**	(3)	**6,150**	(2)	40.6	(4)	**2,139**	(11)	258	(3)
Cyclohexane	2,000	72.7	(4)	53.7	(3)	73.2	(3)	94.8	(4)	75.1	(14)	NA	
Dichlorodifluoromethane	100	**656**	(2)	**133**	(3)	**140**	(4)	**350**	(4)	**282**	(13)	148	(9)
Freon-114	NE	227	(3)	117	(2)	265	(1)	276	(3)	223	(9)	<MQL	(0)
Methylene Chloride	300	12.2	(1)	12.4	(2)	1.0	(1)	<MQL	(0)	9.5	(4)	<MQL	(0)
p/m-Xylene	700	<MQL	(0)	3.2	(1)	<MQL	(0)	<MQL	(0)	3.2	(1)	14.7	(4)
o-Xylene	700	<MQL	(0)	0.9	(1)	<MQL	(0)	2.2	(1)	1.5	(2)	19.3	(4)
n-hexane	50	**150**	(4)	**83.0**	(4)	**131.7**	(4)	**241**	(4)	**152**	(16)	NA	(0)
Propylene	2,000	<MQL	(0)	31.6	(1)	3.6	(1)	<MQL	(0)	17.6	(2)	NA	(0)
Tetrachloroethene	0.03	<MQL	(0)	1.1	(1)	227	(1)	<MQL	(0)	114	(2)	<MQL	(0)
Toluene	100	11.0	(3)	31.9	(3)	61.1	(4)	**101**	(3)	52.1	(13)	75.6	(8)
Trans-1,2-Dichloroethene	20	6.0	(1)	**30.2**	(1)	<MQL	(0)	1.8	(2)	10.0	(4)	238	(4)
Trichloroethene	90	48.5	(2)	**205**	(2)	**574**	(3)	14.7	(4)	**208**	(11)	<MQL	(0)
Trichlorofluoromethane	200	4.5	(1)	<MQL	(0)	<MQL	(0)	0.2	(1)	2.4	(2)	MQL	(0)
Vinyl chloride	40	**1,096**	(4)	**2,250**	(4)	3,947	(3)	114	(4)	**1,712**	(15)	2,369	(8)

Notes:
[1] Mean concentration calculated from positive results only
Bold Text indicates exceeds PAL
(#) Number of positive analytical results
<MQL – Less than method quantitation limit
NA – Not Analyzed

3.4.2 Air Dispersion Modeling

Provided in Appendix C are the results of the Air Dispersion Model utilizing Screen3. The following steps were taken to develop the maximum 1-hour concentration, emission rates for each pollutant, and maximum annual concentration:

- Calculated 90th percentile values for three sampling events (April 2008, July 2008, and October 2008) for the two GV points sampled (GV-3, GV-9). Values below the Method Detection Limit (MDL) were established at 50% of the MDL for purposes of calculating the 90th percentile.
- LandGem Model was run based on the input of the new values into the pollutant tab. The model was run using assumptions used during the RD.
- Screen3 Dispersion Model was run to obtain the maximum 1-hour emission concentration. The model assumptions are provided in the attached document.
- Maximum annual concentrations for the pollutants were calculated based on the results of the Screen3 dispersion model and emission rate from LandGem.
- Maximum concentrations were then compared to the established PALs for each of the contaminants of concern.

None of the VOCs exceeded the PAL established for the project based upon dispersion modeling.

3.4.3 Alkanes

In the fourth quarter, samples were collected from GV-04, GP-07, and GP-11 and analyzed at New England Testing Laboratory (NETlab) for alkanes. Two alkanes were detected in air samples: methane and ethane. Methane was detected all three samples, with a maximum concentration of 344,000 parts per million by volume (ppmv) detected in GP-07. Ethane was detected in GP-07 and GP-11, with the highest concentration, 531 ppmv, occurring in GP-11. PALs have not been established for alkanes in landfill gas.

4.0 DISCUSSION

The first round of Landfill Closure quarterly sampling did not result in findings that varied substantially from previous data or from expectations. The following is a summary of key findings:

4.1 Groundwater

- Aluminum concentrations did not exceed the PAL. No aluminum was detected in MW-11-BR, in which the metal was detected above the PAL during one round of the pre-design investigation. The concentration of aluminum in MW-07-DO and MW-13-S was higher then the average concentration of aluminum detected in these wells during the pre-design investigation.

- Antimony, chromium, and lead were detected in several groundwater samples at concentrations below the PALs. Of these metals, only chromium had been detected, in one sample, during the pre-design investigation.

- Manganese was detected in 16 monitoring wells and two residential wells; the concentration of manganese exceeded the PAL in eight of these wells. Concentrations of manganese were similar to those detected during the pre-design investigation.

- Chloroethane concentrations did not exceed the PAL in monitoring wells. During the pre-design field investigation chloroethane concentrations exceeded the PAL in five monitoring wells, as well as in MW-07-BR. At each well in which chloroethane was detected, the concentration was lower then the concentration detected during the pre-design investigation.

- The laboratory detection limit (10 µg/L) for tetrahydrofuran exceeded the PAL of 8.8 µg/L. All tetrahydrofuran results for groundwater were below the laboratory detection limit. Tetrahydrofuran was detected above its PAL in several samples during the pre-design investigation.

- Concentrations of other VOCs (benzene, vinyl chloride, trichloroethene, 1,4-dichlorobenzene) that had exceeded the PALs during the pre-design investigation were below the PALs during this first quarter sampling round.

4.2 Surface Water

- Total metals detected included aluminum, arsenic, copper, iron, lead, manganese, and zinc. Aluminum was detected above the PAL in all samples. Iron was detected above the PAL in SW-06. Lead was detected above the PAL in sample SW-1, located upstream from the Site.

- Dissolved metals detected included aluminum, chromium, copper, iron, lead, manganese, nickel and zinc. Aluminum concentrations exceeded the PAL in all samples. Lead was detected at a concentration above the PAL in sample SW-1 only. All other dissolved metals concentrations were below the PALs.

- The results for total and dissolved metals in surface water were similar to those during the pre-design investigation.

- Total organic carbon was detected in all samples. Ammonia was not detected in any samples; neither was cyanide, which was detected in a single sample collected during the pre-design investigation. Nitrate was detected in all samples but one; the concentration of nitrate did not exceed the PAL. TKN was detected in two samples and phosphorus in six; a PAL has not been established for TKN or phosphorus.

4.3 Landfill Gas

- The VOCs 1,1-Dichloroethane, benzene, chloroform, cis-1,2-dichloroethene, dichlorodifluoromethane, n-hexane, and vinyl chloride were detected above their PALs in one or more samples.

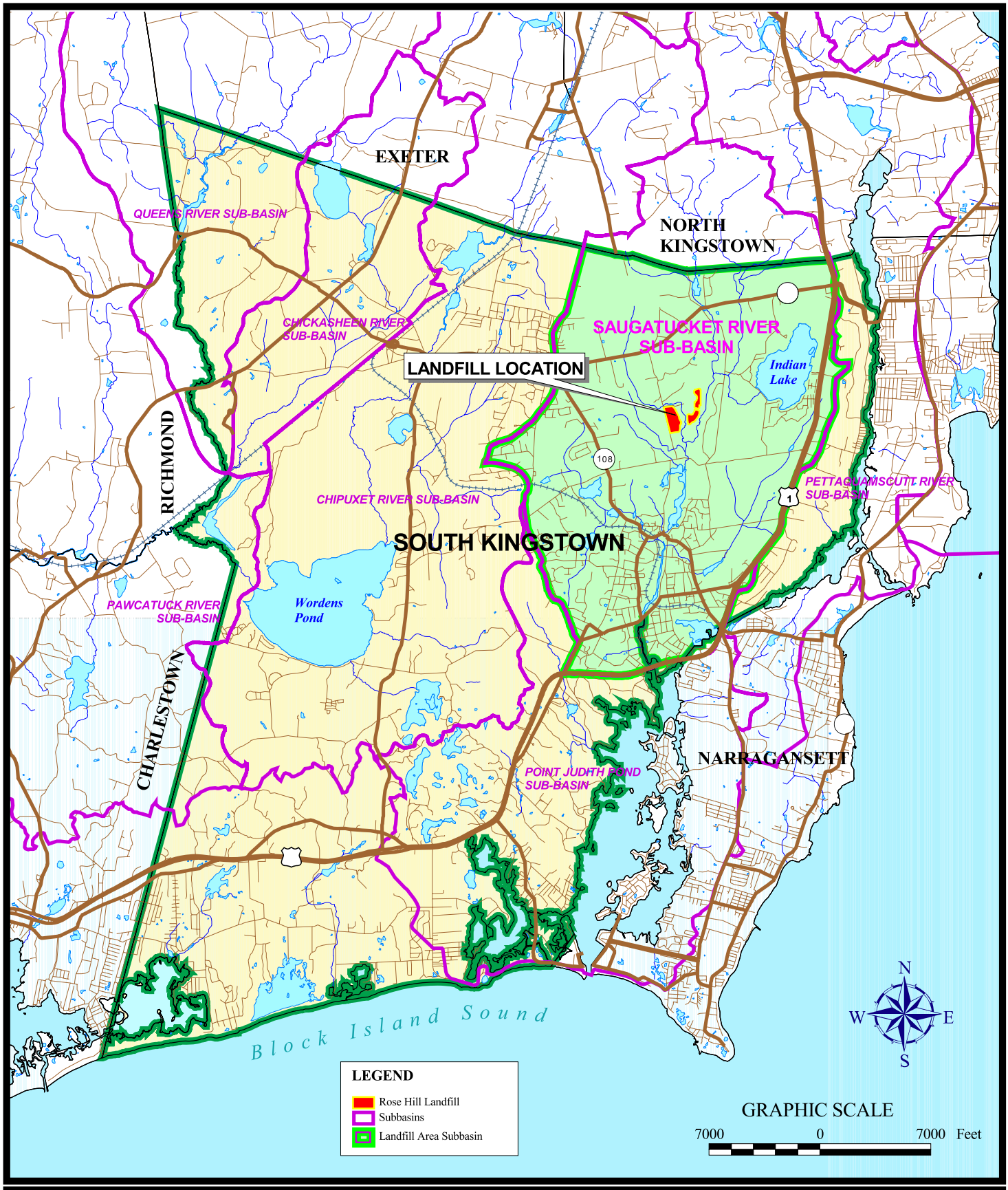
- In some samples the laboratory detection limit for 1,1-dichloroethane, chloroform, and trans-1,2-dichloroethene were above the PAL.

- None of the VOCs exceeded the PAL established for the project based upon dispersion modeling.

The analytical data will be used to develop an updated understanding of the nature and distribution of Site contaminants and evaluate the effectiveness of the RA. These data will also be used for evaluation of potential human health risk, and fate and transport modeling. Landfill gas data were collected to assess landfill gas generation and to determine the effectiveness of the passive landfill gas collection system.

APPENDIX A

FIGURES



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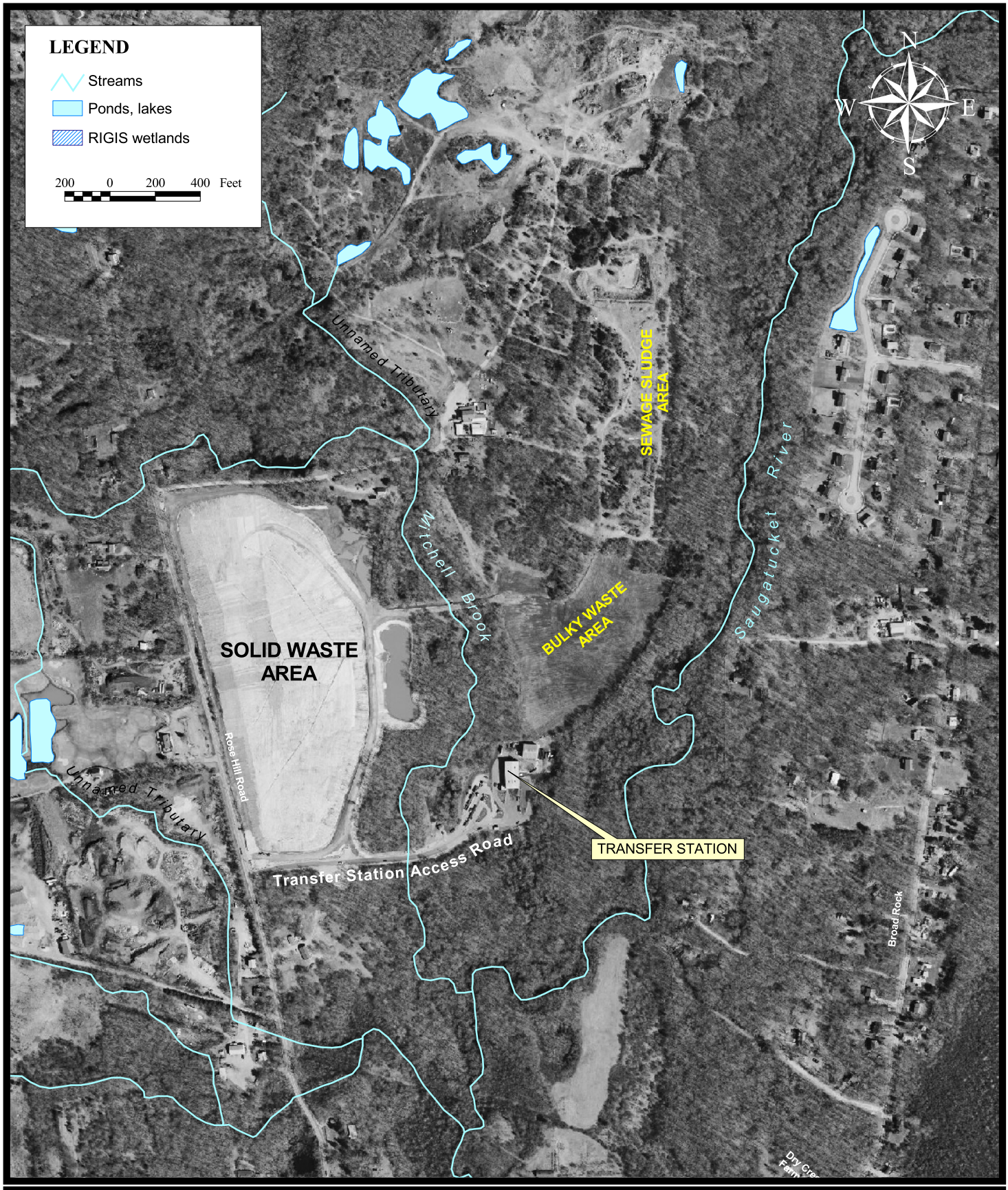
Remedial Action - Rose Hill Landfill

Figure 1: SITE LOCATION MAP

Source: RIGIS, RIDEM, M&E | *wp_qapp-s-kingst-lf.apr* | **November 2007**



RI Department of Environmental Management

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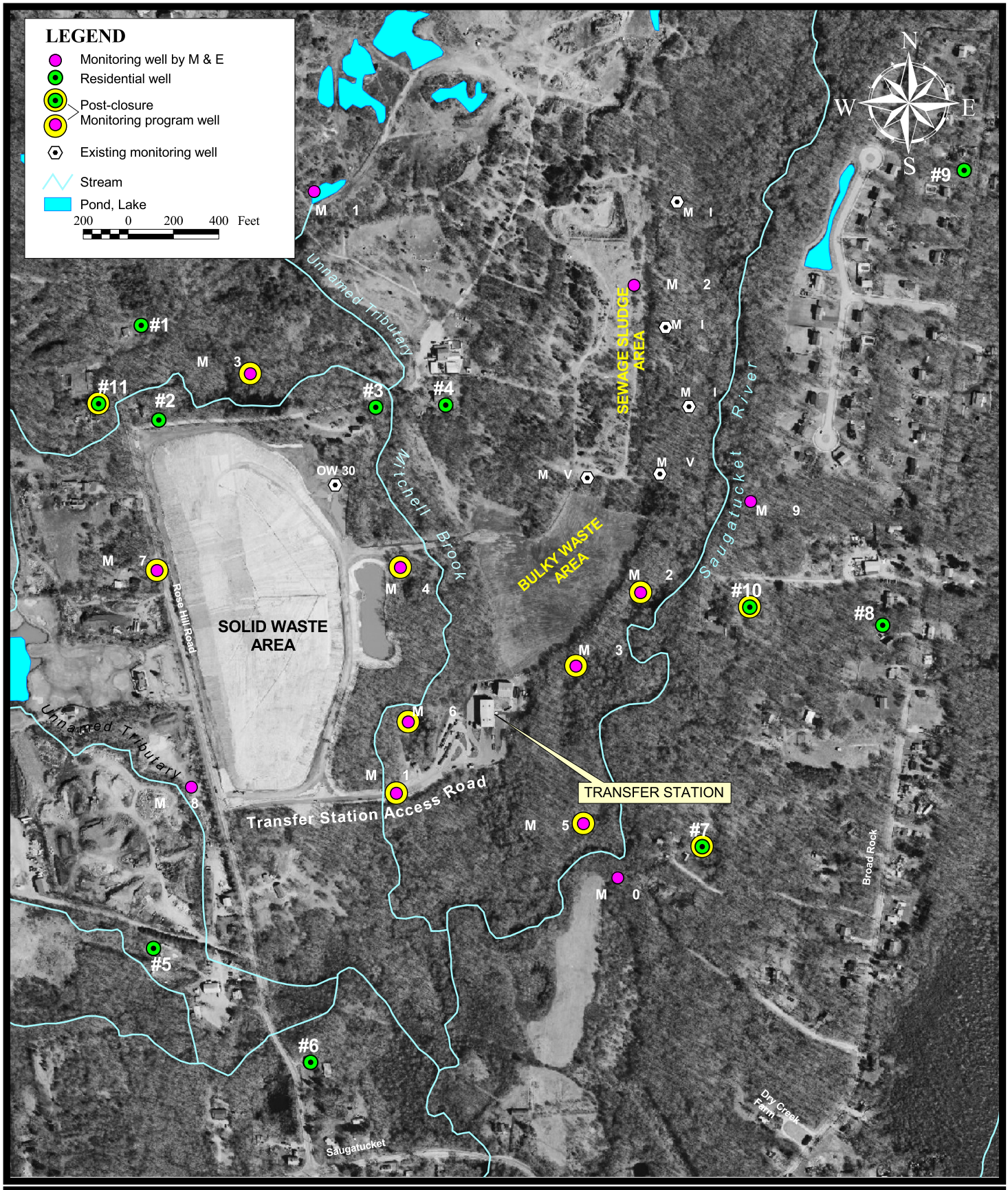
R I

Figure 2: SITE AERIAL EXISTING FEATURES MAP

Source: RIGIS, RIDEM, M&E | *rem_act-skingst-rhlf.apr* | November 2007



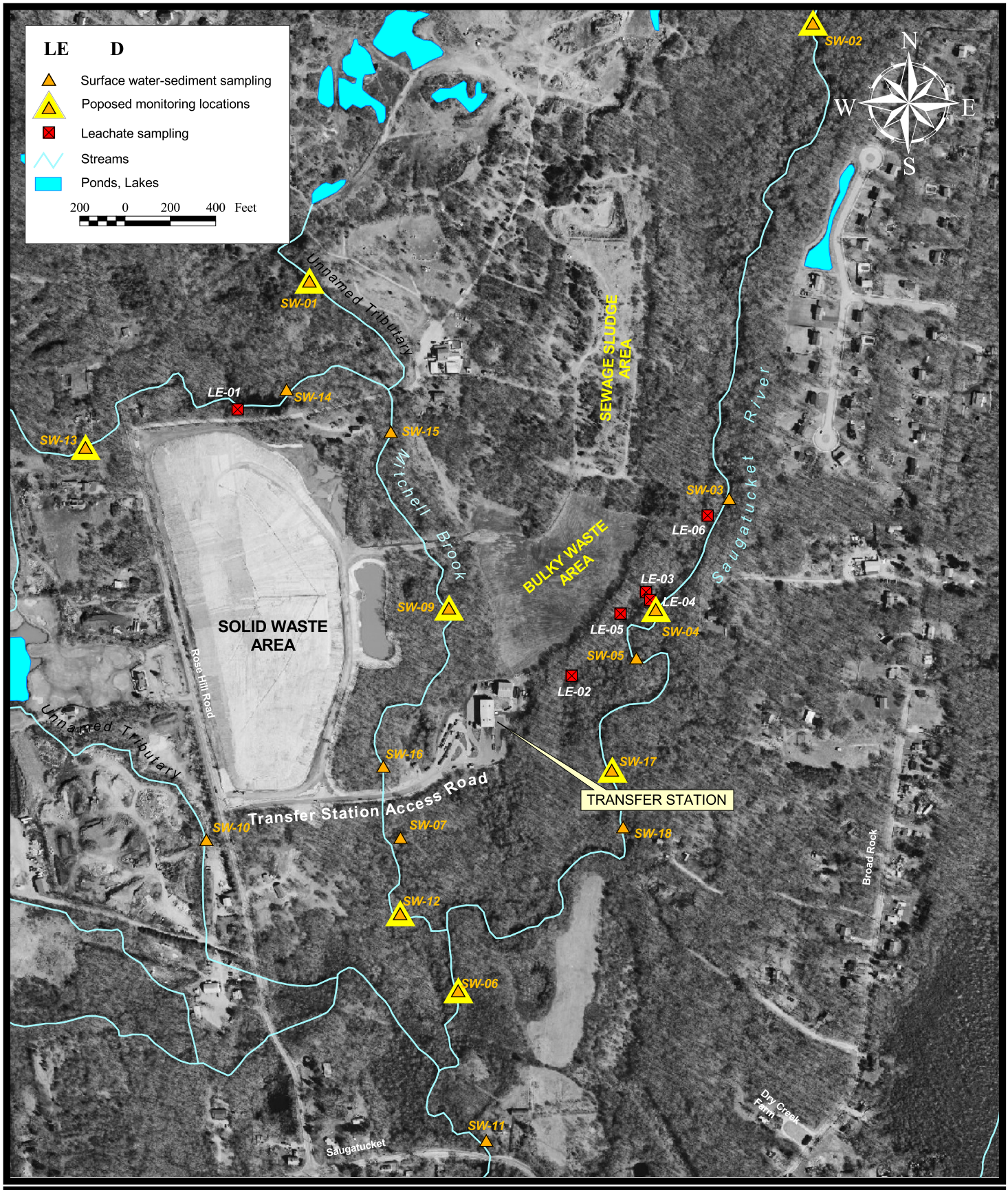
RI Department of Environmental Management

The Louis Berger Group, Inc.

L I

Figure 3: POST-CLOSURE MONITORING PROGRAM GROUNDWATER

Source: RIGIS, RIDEM, M&E | *closure-skingst-rhlf.apr* | May 2008



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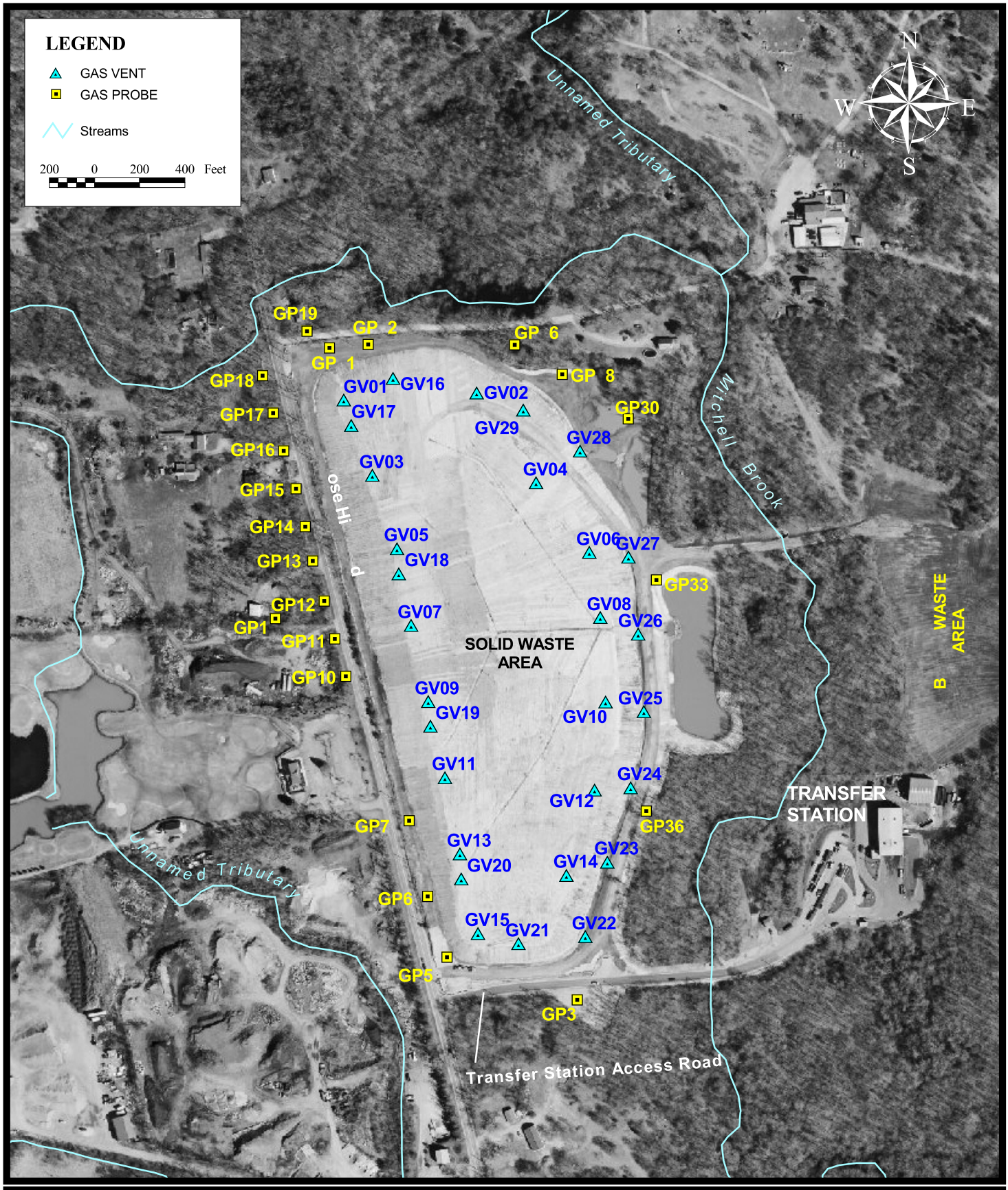
R I

Figure 4: POST-CLOSURE MONITORING PROGRAM SURFACE WATER

S E | re act-skingst-rhlf.apr | N



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Remedial Action - Rose Hill Landfill

Figure 5: POST CLOSURE MONITORING PROGRAM LANDFILL GAS

Source: RIGIS, RIDEM, M&E | *rem_act-skingst-rhlf.apr* | November 2007

APPENDIX B

SUMMARY DATA TABLES

Table 1
Monitoring Wells Sampled and Groundwater Gauging Data
Rose Hill Landfill
South Kingstown, Rhode Island
Year 1

Well ID	Well Diameter	Quarter	Depth to Bottom [1]	Depth to Water [1]	Comments
MW-03S	2 - inch	Q1	14.7	2.11	
		Q2	NR	3.01	
MW-03BR	6 - inch	Q1	>100	0.45	Artesian conditions, water flowing through hole 0.45' below top of casing.
		Q2	NR	0.45	Artesian conditions, water flowing through hole 0.45' below top of casing.
MW-04S	2 - inch	Q1	14.9	4.00	
		Q2	NR	7.81	
MW-04DO	2 - inch	Q1	32.6	3.25	
		Q2	NR	4.63	
MW-05S	2 - inch	Q1	9.3	6.12	
		Q2	NR	9.82	
MW-06DO	2 - inch	Q1	33.6	4.62	
		Q2	NR	6.02	
MW-07DO	2 - inch	Q1	33.9	18.50	
		Q2	NR	19.76	
MW-07BR	4 - inch	Q1	>100	21.80	
		Q2	NR	22.71	
MW-11S	2 - inch	Q1	20.5	7.05	
		Q2	NR	8.50	
MW-11DO	2 - inch	Q1	43.7	6.59	
		Q2	NR	7.82	
MW-11BR	6 - inch	Q1	76.5	4.55	
		Q2	NR	5.94	
MW-12S	2 - inch	Q1	20.2	2.59	
		Q2	NR	1.8	
MW-12DO	2 - inch	Q1	45.5	0.94	
		Q2	NR	1.92	
MW-13S	2 - inch	Q1	20.1	5.55	
		Q2	NR	NR	
MW-13DO	2 - inch	Q1	7.8	NR	
		Q2	NR	7.77	

Notes:
1 - measured from top of PVC well casing
S - shallow overburden groundwater monitoring well
D - deep overburden groundwater monitoring well
BR - bedrock groundwater monitoring well
NR - not read

Table 2
Field Monitoring Results for Groundwater
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

Well ID		Time	Flow Rate	pH	Conductivity		Dissolved Oxygen	Turbidity	ORP	Comments
			ml/min		(ms/cm2)	(ms/cm)	(mg/l)	(NTU)	(mV)	
MW-03S	Q1	10:15	375	7.50	111	NR	5.65	0.9	96.6	
		10:20	350	6.30	108	NR	6.59	1.9	141.2	
		10:25	350	3.13	109	NR	6.86	2.9	146.9	
		10:30	350	6.04	109	NR	6.91	0.9	151.1	
		10:35	350	6.06	109	NR	6.91	0.1	153.0	
	Q2	12:47	200	5.92	NR	88	5.02	7.6	212.1	
		12:52	200	5.89	NR	86	5.14	5.1	239.6	
		12:57	200	5.89	NR	86	5.09	4.4	242.8	
MW-03BR	Q1	11:00	350	6.98	174	NR	8.84	13.0	58.5	Artesian well
		11:05	350	6.85	174	NR	9.21	2.2	70.3	
		11:10	350	6.80	174	NR	9.28	-0.5	79.8	
		11:15	350	6.77	174	NR	9.28	2.7	84.9	
	Q2	12:01	200	7.48	NR	141	9.30	66.0	12.2	Artesian well
		12:06	200	7.60	NR	140	9.42	38.7	-39.1	
		12:11	200	7.58	NR	141	9.44	24.2	-84.5	
		12:16	200	7.51	NR	142	9.43	21.9	-85.5	
MW-04S	Q1	14:37	450	7.40	282	NR	2.52	63.1	-81.2	
		14:42	450	6.57	243	NR	0.60	15.8	-24.1	
		14:47	450	6.45	245	NR	0.48	21.0	-24.1	
		14:51	450	6.44	251	NR	0.60	13.8	-36.5	
	Q2	9:30	200	6.58	NR	214	1.15	93.1	-2.8	
		9:35	200	6.37	NR	180	0.57	54.8	-12.1	
		9:40	200	6.34	NR	179	0.44	27.3	-19.0	
		9:45	200	6.34	NR	173	0.39	22.3	-21.7	
		9:50	200	6.34	NR	171	0.37	15.4	-23.3	
MW-04DO	Q1	14:03	450	7.11	379	NR	1.24	10.7	-90.9	
		14:08	450	6.85	380	NR	0.71	11.4	-99.7	
		14:13	450	6.82	380	NR	0.73	8.5	-104.5	
		14:18	450	6.81	382	NR	0.88	7.2	-106.3	
		14:21	450	6.80	382	NR	0.87	4.8	-106.9	
	Q2		200	6.78	NR	246	2.11	24.3	-134.9	
			200	6.82	NR	236	0.44	20.8	-138.0	
			200	6.82	NR	233	0.31	7.8	-125.7	
			200	6.82	NR	231	0.26	5.0	-126.7	
MW-05S	Q1	12:05	375	7.51	131	NR	10.06	2406.9	167.4	
		12:10	350	6.18	129	NR	10.08	16.0	78.7	
		12:15	350	6.01	129	NR	10.40	4.1	180.6	
		12:20	350	5.95	129	NR	10.50	2.1	182.4	
		12:25	350	5.93	128	NR	10.70	4.6	184.5	
	Q2	14:30	200	5.84	NR	94	9.73	6.5	250.0	
		14:35	200	5.80	NR	88	9.49	3.3	274.3	
		14:40	200	5.80	NR	87	9.27	1.3	286.0	
		14:45	200	5.80	NR	87	9.38	1.8	290.9	
MW-6DO	Q1	11:05	375	6.96	570	NR	25.20	12.0	-46.0	
		11:10	375	6.52	568	NR	0.50	-3.7	-37.2	
		11:15	375	6.50	568	NR	0.36	4.9	-38.2	
		11:20	375	6.49	567	NR	0.30	2.1	-39.5	
		11:25	375	6.49	566	NR	0.27	2.6	-40.4	
	Q2	14:37	200	6.45	NR	411	1.96	13.7	-60.7	
		14:42	200	6.43	NR	404	0.40	25.2	-62.0	
		14:47	200	6.43	NR	400	0.25	1.6	-63.5	
		12:28	200	6.43	NR	400	0.20	2.1	-64.2	
MW-7DO	Q1	8:49	N/A	6.44	-17	NR	4.92	1389.4	-16.8	hand bailed 7.5 gallons prior to sample collection
	Q2	9:05	NR	6.32	NR	225	2.58	1049.9	-55.1	hand bailed 12 gallons prior to sample collection
		9:22	NR	6.35	NR	223	2.62	1046.7	-57.1	
		9:35	NR	6.38	NR	222	2.64	1047.3	-57.9	
MW-7BR	Q1	9:25	N/A	11.07	564	NR	12.48	2505.7	10.0	hand bailed 5 gallons prior to sample collection
		9:36	N/A	11.10	567	NR	12.52	2510.1	15.2	
		9:48	N/A	11.10	570	NR	12.34	1582.6	17.4	
	Q2	9:19	NR	10.74	NR	393	5.96	1044.4	-23.8	hand bailed 12 gallons prior to sample collection
		9:27	NR	10.74	NR	394	6.55	1043.1	183.4	
		9:47	NR	10.30	NR	226	5.22	1077.8	160.2	
MW-11S	Q1	8:51	400	6.38	664	NR	2.49	66.1	-36.3	
		8:55	350	6.29	659	NR	1.22	40.7	-34.3	
		9:00	350	6.29	655	NR	0.89	33.0	-34.1	
		9:05	350	6.30	651	NR	0.92	43.0	-35.4	
	Q2	11:44	200	6.28	NR	511	0.89	2.2	-69.7	
		11:49	200	6.27	NR	480	0.66	2.7	-72.4	
		11:54	200	6.26	NR	473	0.52	4.0	-73.9	
		11:59	200	6.26	NR	471	0.49	3.4	-74.1	
MW-11DO	Q1	9:35	350	7.02	650	NR	1.66	1.7	43.2	
		9:40	350	6.77	649	NR	4.2%	1.3	61.7	
		9:45	350	6.78	649	NR	0.36	1.8	66.4	
		9:50	350	6.79	648	NR	0.30	1.2	58.1	
		9:55	350	6.76	648	NR	0.32	1.4	7.3	
		10:00	350	6.64	645	NR	0.25	1.8	-24.6	
	Q2	12:48	200	6.65	NR	515	3.98	16.9	-39.7	
		12:53	200	6.63	NR	496	2.08	10.8	-32.8	
		12:58	200	6.60	NR	489	1.51	9.6	-32.8	
		13:03	200	6.62	NR	484	1.66	8.8	-32.3	

Table 2
Field Monitoring Results for Groundwater
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

Well ID		Time	Flow Rate	pH	Conductivity		Dissolved Oxygen	Turbidity	ORP	Comments
			ml/min		(ms/cm2)	(ms/cm)	(mg/l)	(NTU)	(mV)	
MW-11BR	Q2	10:17	375	8.27	NR	499	7.41	2.0	-142.1	
		10:22	375	8.42	NR	498	5.76	2.4	-56.9	
		10:27	375	8.44	NR	496	7.72	2.4	5.6	
		10:32	350	8.44	495	495	5.78	2.6	20.2	
MW-12S	Q1	8:34	450	10.07	126	NR	61.0%	35.0	-2.5	
		8:39	400	9.63	133	NR	5.7%	161.8	-4.1	
		8:44	375	9.19	134	NR	0.90	183.2	-0.1	
		8:49	375	8.91	132	NR	0.19	173.3	0.5	
		8:54	375	8.76	132	NR	1.20	16.6	-8.5	
		8:59	350	8.58	132	NR	1.50	149.2	-27.8	
	Q2	10:47	200	5.63	NR	107	3.72	60.9	111.9	
		10:52	200	5.74	NR	121	1.89	68.7	70.4	
		10:57	200	5.86	NR	139	0.54	24.0	47.4	
		11:02	200	5.86	NR	139	0.30	5.4	31.9	
		11:07	200	5.85	NR	138	0.29	6.1	32.5	
MW-12DO	Q1	9:17	350	7.41	120	NR	6.18	49.0	65.0	
		9:22	350	6.01	137	NR	2.76	18.7	80.3	
		9:27	350	5.86	145	NR	0.68	5.7	70.2	
		9:32	350	5.80	144	NR	0.41	4.9	69.9	
		9:37	350	5.77	142	NR	0.41	3.4	71.1	
	Q2	11:28	200	10.41	NR	128	3.38	42.4	-201.2	
		11:33	200	10.87	NR	168	1.19	11.4	-168.6	
		11:38	200	10.90	NR	176	1.02	-0.8	-163.0	
		11:43	200	10.90	NR	177	0.77	-1.1	-160.8	
		11:48	200	10.89	NR	175	0.74	-0.8	-159.2	
MW-13S	Q1	13:28	400	7.15	85	NR	7.52	6.2	234.6	
		13:33	400	5.13	84	NR	7.07	-0.1	262.7	
		13:38	375	5.03	86	NR	6.47	3.8	264.8	
		13:43	375	5.00	86	NR	6.21	2.7	565.5	
MW-13DO	Q2	10:39	200	5.64	NR	79	2.00	10.2	216.4	
		10:44	200	5.28	NR	73	0.64	4.4	204.1	
		10:49	200	5.21	NR	71	0.45	2.2	158.5	
		10:54	200	5.19	NR	70	0.39	4.3	136.8	
		10:59	200	5.20	NR	70	0.35	6.1	130.1	
RES-7	Q1	12:06	N/A	8.48	222	NR	7.08	1259.0	121.2	
		12:09	N/A	8.47	222	NR	3.59	1138.5	109.9	
		12:14	N/A	8.48	223	NR	3.15	995.5	104.1	
	Q2	14:20	NR	8.53	NR	179	2.13	0.2	123.0	
		14:23	NR	8.58	NR	172	3.01	0.1	150.6	
		14:25	NR	8.52	NR	166	4.95	0.1	151.9	
		14:28		8.50	NR	166	4.94	0.1	160.0	
RES-10	Q1	12:51	N/A	7.92	233	NR	17.35	660.8	100.2	
		12:54	N/A	8.15	236	NR	22.75	459.0	90.7	
		12:55	N/A	8.25	235	NR	13.87	2507.8	87.3	
	Q2	13:57	NR	8.31	NR	181	5.57	0.2	117.4	
		13:59	NR	8.26	NR	173	5.67	52.7	139.8	
		14:00	NR	8.26	NR	173	5.93	2.4	157.9	
		14:02	NR	8.28	NR	168	5.94	29.0	157.0	
RES-11	Q1	12:06	N/A	7.74	68	NR	8.63	588.5	140.4	
		12:09	N/A	7.54	68	NR	7.64	586.7	145.6	
		12:13	N/A	7.54	68	NR	7.64	586.7	145.6	
	Q2	15:04	NR	6.89	NR	58	5.30	11.4	40.4	
		15:06	NR	6.62	NR	53	6.49	19.2	41.6	
		15:07	NR	6.58	NR	55	6.43	12.0	27.6	
		15:08	NR	6.57	NR	56	7.03	9.0	17.4	

Notes:
BR - bedrock groundwater monitoring well
DO - deep overburden groundwater monitoring well
S - shallow overburden groundwater monitoring well
RPM - revolutions per minute
$\mu s/cm^2$ - microsiemens per centimeter
µs/cm - microsiemens per centimeter squared
mg/l - milligrams per liter
NTU - nephelometric turbidity unit
mv - millivolts
N/A - not applicable
NR - not read

Table 3
Field Monitoring Results for Surface Water
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

Sampling Location	Quarter	Temperature (°C)	pH	O.R.P. (mV)	Turbidity (NTU)	Conductivity (ms/cm^2)	Conductivity (ms/cm)	Dissolved O_2 (mg/L)
SW-01	Q1	12.1	6.2	163.9	37.9	115	NR	4.5
	Q2	22.62	6.40	105.7	11.7	NR	70	6.86
	Mean	17.36	6.3	134.8	24.8	NR	NR	5.68
SW-02	Q1	10.4	6.7	169.7	0.8	98	NR	5.3
	Q2	18.15	7.95	111.6	3.2	NR	42	10.71
	Mean	13.88	6.5	152.25	12.8	NR	NR	5.49
SW-04	Q1	11.1	7.3	-10.0	0.7	105	NR	12.2
	Q2	19.95	6.78	47.8	1,101.9	NR	61	11.77
	Mean	15.525	7.04	18.9	551.3	NR	NR	11.985
SW-06	Q1	10.5	8.2	2.5	5.6	86	NR	10.1
	Q2	19.68	6.65	20.1	2.7	NR	122	10.26
	Mean	15.09	7.425	11.3	4.15	NR	NR	10.18
SW-09	Q1	10.3	8.1	0.9	0.0	77	NR	10.1
	Q2	23.53	6.38	107.2	2.7	NR	86	8.39
	Mean	16.915	7.24	54.05	1.35	NR	NR	9.245
SW-12	Q1	10.8	8.6	-13.1	0.8	182	NR	13.6
	Q2	19.84	6.78	-6.7	36.2	NR	159	9.64
	Mean	15.32	7.69	-9.9	18.5	NR	NR	11.62
SW-13	Q1	10.3	6.5	166.8	0.1	77	NR	4.1
	Q2	20.63	6.68	188.4	2.3	NR	64	8.17
	Mean	15.465	6.59	177.6	1.2	NR	NR	6.135
SW-17	Q1	11.1	7.3	130.0	108	104	NR	12.1
	Q2	21.06	7.29	32.8	110.9	NR	115	7.81
	Mean	16.08	7.295	81.4	109.45	NR	NR	9.955

Notes:
Highlighted Text indicates summary statistic
° C - Celsius
mV - millivolts
NTU - Nephelometric Turbidity Units
ORP - oxidation-reduction potential
ms/cm^2 - microsiemens per centimeter squared
ms/cm - microsiemens per centimeter
mg/L - milligrams per liter
Q1 - first quarter, Q2 - second quarter
NR - not read

Table 4a
Field Monitoring Results for Landfill Gas (Vents)
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

WELL ID	DATE	METHANE (%)	DIOXIDE (%)	OXYGEN (%)	LEL (%)	METHANE (%)	DIOXIDE (%)	OXYGEN (%)	LEL (%)
GV-01	Q1	5.1	4.6	17.7	>100	NR	NR	NR	NR
	Q2	21.9	17.3	6.3	>100	NR	NR	NR	NR
	Q3	0.0	0.0	20.8	0	NR	NR	NR	NR
	Q4	9.0	7.3	14.9	>100	0.0	0.0	22.0	0
	MEAN	9.0	7.3	14.9	>100	NR	NR	NR	NR
	RANGE	0 - 21.9	0 - 17.3	6.3 - 20.8	0 - >100	NR	NR	NR	NR
GV-02	Q1	0.0	0.0	21.1	0	NR	NR	NR	NR
	Q2	0.2	0.0	20.8	4	NR	NR	NR	NR
	Q3	14.7	10.3	15.4	>100	NR	NR	NR	NR
	Q4	0.0	0.0	21.6	0	0.0	0.0	21.7	0
	MEAN	3.7	2.6	19.7	75	NR	NR	NR	NR
	RANGE	0 - 14.7	0 - 10.3	15.4 - 21.6	0 - >100	NR	NR	NR	NR
GV-03	Q1	17.1	13.7	10.5	>100	NR	NR	NR	NR
	Q2	55.0	28.2	3.3	>100	NR	NR	NR	NR
	Q3	21.9	17.7	10.2	>100	NR	NR	NR	NR
	Q4	13.2	9.4	16.6	>100	15.4	10.9	15.7	>100
	MEAN	26.8	17.3	10.2	>100	NR	NR	NR	NR
	RANGE	13.2 - 55	9.4 - 28.2	3.3 - 16.6	>100	NR	NR	NR	NR
GV-04	Q1	0.0	0.0	21.1	0	NR	NR	NR	NR
	Q2	87.9	35.1	0.6	>100	NR	NR	NR	NR
	Q3	58.3	40.7	1.3	>100	NR	NR	NR	NR
	Q4	39.2	30.4	2.5	>100	51.5	28.3	5.8	>100
	MEAN	46.4	26.6	6.4	>100	NR	NR	NR	NR
	RANGE	0 - 87.9	0 - 40.7	0.6 - 21.1	0 - >100	NR	NR	NR	NR
GV-05	Q1	14.2	12.3	11.7	>100	NR	NR	NR	NR
	Q2	51.6	28.0	3.2	>100	NR	NR	NR	NR
	Q3	28.9	24.3	6.2	>100	NR	NR	NR	NR
	Q4	16.4	11.9	14.2	>100	32.1	22.2	9.0	>100
	MEAN	27.8	19.1	8.8	>100	NR	NR	NR	NR
	RANGE		11.9 - 28	3.2 - 14.2	>100	NR	NR	NR	NR
GV-06	Q1	0.0	0.0	21.3	0	NR	NR	NR	NR
	Q2	64.3	34.5	1.5	>100	NR	NR	NR	NR
	Q3	0.0	0.0	21.3	0	NR	NR	NR	NR
	Q4	0.0	0.1	21.7	0	0.0	0.0	20.9	0
	MEAN	16.1	8.7	16.5	>100	NR	NR	NR	NR
	RANGE	0 - 64.3	0 - 34.5	1.5 - 21.7	0 - >100	NR	NR	NR	NR
GV-07	Q1	12.4	11.5	12.3	>100	NR	NR	NR	NR
	Q2	70.0	34.2	1.8	>100	NR	NR	NR	NR
	Q3	48.1	32.3	3.7	>100	NR	NR	NR	NR
	Q4	20.8	14.5	12.8	>100	19.8	13.9	13.0	>100
	MEAN	37.8	23.1	7.7	>100	NR	NR	NR	NR
	RANGE	12.4 - 70	11.5 - 34.2	1.8 - 12.8	>100	NR	NR	NR	NR
GV-08	Q1	0.0	0.0	21.1	0	NR	NR	NR	NR
	Q2	75.5	36.7	0.5	>100	NR	NR	NR	NR
	Q3	0.0	0.1	21.2	0	NR	NR	NR	NR
	Q4	49.1	33.2	1.0	>100	49.0	33.4	0.8	>100
	MEAN	31.2	17.5	11.0	>100	NR	NR	NR	NR
	RANGE	0 - 75.5	0 - 36.7	0.5 - 21.2	0 - >100	NR	NR	NR	NR
GV-09	Q1	9.4	8.8	14.5	>100	NR	NR	NR	NR
	Q2	0.1	0.1	20.9	2	NR	NR	NR	NR
	Q3	33.8	28.8	4.7	>100	NR	NR	NR	NR
	Q4	14.5	11.0	14.7	>100	13.2	9.9	15.5	>100
	MEAN	14.5	12.2	13.7	>100	NR	NR	NR	NR
	RANGE	0.1 - 33.8	0.1 - 28.8	4.7 - 20.9	2 - >100	NR	NR	NR	NR
GV-10	Q1	0.0	0.0	21.8	0	NR	NR	NR	NR
	Q2	53.9	31.1	1.6	>100	NR	NR	NR	NR
	Q3	20.0	18.1	11.3	>100	NR	NR	NR	NR
	Q4	44.3	30.4	3.4	>100	36.8	25.3	6.1	>100
	MEAN	29.6	19.9	9.5	>100	NR	NR	NR	NR
	RANGE	0 - 53.9	0 - 31.1	1.6 - 21.8	0 - >100	NR	NR	NR	NR
GV-11	Q1	7.2	8.3	14.0	>100	NR	NR	NR	NR
	Q2	57.5	29.2	3.5	>100	NR	NR	NR	NR
	Q3	33.4	29.2	4.7	>100	NR	NR	NR	NR
	Q4	12.6	10.0	15.3	>100	12.9	10.2	15.0	>100
	MEAN	27.7	19.2	9.4	>100	NR	NR	NR	NR
	RANGE	7.2 - 57.5	8.3 - 29.2	3.5 - 15.3	>100	NR	NR	NR	NR

Notes:
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Table 4a
Field Monitoring Results for Landfill Gas (Vents)
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

WELL ID	DATE	METHANE (%)	DIOXIDE (%)	OXYGEN (%)	LEL (%)	METHANE (%)	DIOXIDE (%)	OXYGEN (%)	LEL (%)
GV-12	Q1	0.0	0.2	21.0	0	NR	NR	NR	NR
	Q2	46.8	24.6	5.2	>100	NR	NR	NR	NR
	Q3	23.4	16.1	11.7	>100	NR	NR	NR	NR
	Q4	0.0	0.1	21.2	0	0.0	0.0	21.1	0
	MEAN	17.6	10.3	14.8	>100	NR	NR	NR	NR
	RANGE	0 - 46.8	0.1 - 24.6	5.2 - 21.2	0 - >100	NR	NR	NR	NR
GV-13	Q1	10.4	12.3	11.0	>100	NR	NR	NR	NR
	Q2	31.1	17.0	10.2	>100	NR	NR	NR	NR
	Q3	28.4	26.5	6.9	>100	NR	NR	NR	NR
	Q4	10.6	8.3	16.4	>100	13.5	10.7	15.2	>100
	MEAN	20.1	16.0	11.1	>100	NR	NR	NR	NR
	RANGE	10.4 - 31.1	8.3 - 26.5	6.9 - 16.4	>100	NR	NR	NR	NR
GV-14	Q1	0.0	0.1	21.1	0	NR	NR	NR	NR
	Q2	42.8	22.7	5.8	>100	NR	NR	NR	NR
	Q3	22.7	12.7	13.5	>100	NR	NR	NR	NR
	Q4	13.9	10.8	14.6	>100	11.1	9.1	15.3	>100
	MEAN	19.9	11.6	13.8	>100	NR	NR	NR	NR
	RANGE	0 - 42.8	0.1 - 22.7	5.8 - 21.1	0 - >100	NR	NR	NR	NR
GV-15	Q1	0.2	0.8	20.1	4	NR	NR	NR	NR
	Q2	0.2	0.0	21.1	4	NR	NR	NR	NR
	Q3	0.0	0.1	21.0	0	NR	NR	NR	NR
	Q4	0.0	0.1	21.4	0	0.0	0.0	21.5	0
	MEAN	0.1	0.3	20.9	2	NR	NR	NR	NR
	RANGE	0 - 0.2	0 - 0.8	20.1 - 21.4	0 - 4	NR	NR	NR	NR
GV-16	Q1	0.1	0.1	21.1	2	NR	NR	NR	NR
	Q2	37.9	16.0	11.4	>100	NR	NR	NR	NR
	Q3	39.8	26.8	6.6	>100	NR	NR	NR	NR
	Q4	7.2	5.9	17.6	>100	9.1	7.2	17.0	>100
	MEAN	21.3	12.2	14.2	>100	NR	NR	NR	NR
	RANGE	0.1 - 39.8	0.1 - 26.8	6.6 - 21.1	2 - >100	NR	NR	NR	NR
GV-17	Q1	29.6	17.0	10.6	>100	NR	NR	NR	NR
	Q2	0.2	0.0	20.9	4	NR	NR	NR	NR
	Q3	28.2	22.3	9.0	>100	NR	NR	NR	NR
	Q4	0.0	0.0	21.7	0	0.0	0.0	21.8	0
	MEAN	14.5	9.8	15.6	>100	NR	NR	NR	NR
	RANGE	0 - 29.6	0 - 22.3	9 - 21.7	0 - >100	NR	NR	NR	NR
GV-18	Q1	15.8	12.9	11.5	>100	NR	NR	NR	NR
	Q2	63.5	31.2	2.3	>100	NR	NR	NR	NR
	Q3	35.5	28.6	4.0	>100	NR	NR	NR	NR
	Q4	11.8	9.0	16.3	>100	19.7	14.6	13.0	>100
	MEAN	31.7	20.4	8.5	>100	NR	NR	NR	NR
	RANGE	11.8 - 63.5	9 - 31.2	2.3 - 16.3	>100	NR	NR	NR	NR
GV-19	Q1	12.1	11.2	12.6	>100	NR	NR	NR	NR
	Q2	83.6	35.8	0.4	>100	NR	NR	NR	NR
	Q3	51.9	37.0	1.8	>100	NR	NR	NR	NR
	Q4	18.1	13.5	12.8	>100	19.3	14.4	12.6	>100
	MEAN	41.4	24.4	6.9	>100	NR	NR	NR	NR
	RANGE	12.1 - 83.6	11.2 - 37	0.4 - 12.8	>100	NR	NR	NR	NR
GV-20	Q1	2.9	4.2	17.1	58	NR	NR	NR	NR
	Q2	45.5	25.9	3.5	>100	NR	NR	NR	NR
	Q3	24.2	20.3	10.4	>100	NR	NR	NR	NR
	Q4	0.0	0.1	21.4	0	0.0	0.1	21.5	0
	MEAN	18.2	12.6	13.1	>100	NR	NR	NR	NR
	RANGE	0 - 45.5	0.1 - 25.9	3.5 - 21.4	0 - >100	NR	NR	NR	NR
GV-21	Q1	2.5	3.4	17.7	50	NR	NR	NR	NR
	Q2	0.2	0.0	21.2	4	NR	NR	NR	NR
	Q3	0.0	0.0	0.0	0	NR	NR	NR	NR
	Q4	3.6	3.2	19.3	72	8.7	6.4	17.9	>100
	MEAN	1.6	1.7	14.6	32	NR	NR	NR	NR
	RANGE	0 - 3.6	0 - 3.4	0 - 21.2	0 - 72	NR	NR	NR	NR
GV-22	Q1	0.0	0.0	21.1	0	NR	NR	NR	NR
	Q2	37.4	22.1	5.8	>100	NR	NR	NR	NR
	Q3	15.1	9.4	13.3	>100	NR	NR	NR	NR
	Q4	0.0	0.1	21.3	0	0.0	0.1	21.3	0
	MEAN	13.1	7.9	15.4	>100	NR	NR	NR	NR
	RANGE	0 - 37.4	0 - 22.1	5.8 - 21.3	0 - >100	NR	NR	NR	NR

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Table 4a
Field Monitoring Results for Landfill Gas (Vents)
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

WELL ID	DATE	METHANE (%)	DIOXIDE (%)	OXYGEN (%)	LEL (%)	METHANE (%)	DIOXIDE (%)	OXYGEN (%)	LEL (%)
GV-23	Q1	0.0	0.0	21.2	0	NR	NR	NR	NR
	Q2	1.4	0.7	20.6	28	NR	NR	NR	NR
	Q3	1.5	2.5	18.9	30	NR	NR	NR	NR
	Q4	0.0	0.5	20.8	0	0.0	0.3	20.9	0
	MEAN	0.7	0.9	20.4	15	NR	NR	NR	NR
	RANGE	0 - 1.5	0 - 2.5	18.9 - 21.2	0 - 30	NR	NR	NR	NR
GV-24	Q1	1.2	2.1	19.6	24	NR	NR	NR	NR
	Q2	7.3	5.0	18.3	>100	NR	NR	NR	NR
	Q3	21.4	17.1	11.5	>100	NR	NR	NR	NR
	Q4	1.4	2.0	20.0	28	0.0	0.1	21.3	0
	MEAN	7.8	6.6	17.4	>100	NR	NR	NR	NR
	RANGE	1.2 - 21.4	2 - 17.1	11.5 - 20	24 - >100	NR	NR	NR	NR
GV-25	Q1	1.0	3.1	17.7	20	NR	NR	NR	NR
	Q2	29.6	18.8	10.0	>100	NR	NR	NR	NR
	Q3	10.3	8.2	16.2	>100	NR	NR	NR	NR
	Q4	0.0	0.0	21.4	0	0.0	0.0	21.4	0
	MEAN	10.2	7.5	16.3	>100	NR	NR	NR	NR
	RANGE	0 - 29.6	0 - 18.8	10 - 21.4	0 - >100	NR	NR	NR	NR
GV-26	Q1	0.0	0.2	21.0	0	NR	NR	NR	NR
	Q2	0.2	0.3	21.1	4	NR	NR	NR	NR
	Q3	0.0	0.0	21.3	0	NR	NR	NR	NR
	Q4	0.0	0.0	21.6	0	0.0	0.0	21.5	0
	MEAN	0.1	0.1	21.3	1	NR	NR	NR	NR
	RANGE	0 - 0.2	0 - 0.3	21 - 21.6	0 - 4	NR	NR	NR	NR
GV-27	Q1	0.0	0.0	21.4	0	NR	NR	NR	NR
	Q2	31.9	22.7	3.5	>100	NR	NR	NR	NR
	Q3	0.0	0.0	21.3	0	NR	NR	NR	NR
	Q4	0.0	0.1	21.7	0	0.0	0.0	20.8	0
	MEAN	8.0	5.7	17.0	>100	NR	NR	NR	NR
	RANGE	0 - 31.9	0 - 22.7	3.5 - 21.7	0 - >100	NR	NR	NR	NR
GV-28	Q1	0.0	0.0	21.1	0	NR	NR	NR	NR
	Q2	53.3	27.6	1.8	>100	NR	NR	NR	NR
	Q3	0.0	0.1	21.0	0	NR	NR	NR	NR
	Q4	0.0	0.0	21.0	0	0.0	0.0	21.1	0
	MEAN	13.3	6.9	16.2	>100	NR	NR	NR	NR
	RANGE	0 - 53.3	0 - 27.6	1.8 - 21.1	0 - >100	NR	NR	NR	NR
GV-29	Q1	0.0	0.0	21.1	0	NR	NR	NR	NR
	Q2	54.3	28.0	2.7	>100	NR	NR	NR	NR
	Q3	0.0	0.1	21.1	0	NR	NR	NR	NR
	Q4	2.6	2.6	19.3	52	1.4	1.7	20.3	28
	MEAN	14.2	7.7	16.1	>100	NR	NR	NR	NR
	RANGE	0 - 54.3	0 - 28	2.7 - 21.1	0 - >100	NR	NR	NR	NR

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Table 4b
Field Monitoring Results for Landfill Gas (Probes)
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

WELL ID	DATE	METHANE (%)	CARBON DIOXIDE (%)	OXYGEN (%)	LEL (%)
GP-01	Q1	0.0	4.2	15.1	0
	Q2	0.1	4.2	16.2	2
	Q3	11.3	9.2	13.5	>100
	Q4	NR	NR	NR	NR
	MEAN	3.8	5.9	14.9	76
	RANGE	0 - 11.3	4.2 - 9.2	13.5 - 16.2	0 - >100
GP-03	Q1	0.0	0.4	20.2	0
	Q2	0.1	11.2	8.9	2
	Q3	3.1	7.7	20.2	62
	Q4	1.4	16.6	0.0	28
	MEAN	1.2	9.0	12.3	23
	RANGE	0 - 3.1	0.4 - 16.6	0 - 20.2	0 - 62
GP-05	Q1	37.1	27.0	0.7	>100
	Q2	55.3	29.4	1.2	>100
	Q3	44.6	35.4	0.0	>100
	Q4	4.2	27.1	0.4	84
	MEAN	35.3	29.7	0.6	>100
	RANGE	4.2 - 55.3	27 - 35.4	0 - 1.2	84 - >100
GP-06	Q1	17.4	21.5	1.9	>100
	Q2	11.3	9.7	12.3	>100
	Q3	35.6	32.1	0.0	>100
	Q4	24.8	24.0	0.5	>100
	MEAN	22.3	21.8	3.7	>100
	RANGE	11.3 - 35.6	9.7 - 32.1	0 - 12.3	>100
GP-07	Q1	46.3	29.5	0.5	>100
	Q2	54.3	31.8	1.5	>100
	Q3	48.4	37.2	0.0	>100
	Q4	49.4	32.8	0.5	>100
	MEAN	49.6	32.8	0.6	>100
	RANGE	46.3 - 54.3	29.5 - 37.2	0 - 1.5	>100
GP-10	Q1	12.5	12.6	11.0	>100
	Q2	15.1	22.8	2.5	>100
	Q3	17.8	26.9	0.4	>100
	Q4	22.4	24.7	0.2	>100
	MEAN	17.0	21.8	3.5	>100
	RANGE	12.5 - 22.4	12.6 - 26.9	0.2 - 11	>100
GP-11	Q1	27.8	25.7	0.0	>100
	Q2	5.1	13.0	8.8	>100
	Q3	19.0	26.9	0.0	>100
	Q4	23.3	24.7	0.2	>100
	MEAN	18.8	22.6	2.3	>100
	RANGE	5.1 - 27.8	13 - 26.9	0 - 8.8	>100

Notes:
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LEL = Lower Explosive Limit

Table 4b
Field Monitoring Results for Landfill Gas (Probes)
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

WELL ID	DATE	METHANE (%)	CARBON DIOXIDE (%)	OXYGEN (%)	LEL (%)
GP-12	Q1	8.2	16.5	4.5	>100
	Q2	5.1	12.4	8.4	>100
	Q3	12.3	22.6	0.6	>100
	Q4	6.2	18.4	2.8	>100
	MEAN	8.0	17.5	4.1	>100
	RANGE	5.1 - 12.3	12.4 - 22.6	0.6 - 8.4	>100
GP-13	Q1	2.9	4.5	15.7	58
	Q2	3.1	3.3	16.1	62
	Q3	13.2	17.5	5.1	>100
	Q4	3.0	7.7	12.2	60
	MEAN	5.6	8.3	12.3	>100
	RANGE	2.9 - 13.2	3.3 - 17.5	5.1 - 16.1	58 - >100
GP-14	Q1	17.1	21.1	3.0	>100
	Q2	7.3	17.3	5.0	>100
	Q3	0.7	2.0	18.2	14
	Q4	1.9	7.7	13.3	38
	MEAN	6.8	12.0	9.9	>100
	RANGE	0.7 - 17.1	2 - 21.13	3 - 18.2	14 - >100
GP-15	Q1	0.0	5.4	14.4	0
	Q2	0.1	5.3	14.8	2
	Q3	0.0	4.8	15.9	0
	Q4	0.0	4.0	16.7	0
	MEAN	0.0	4.9	15.5	1
	RANGE	0 - 0.1	4 - 5.4	14.4 - 16.7	0 - 2
GP-16	Q1	0.2	5.9	12.6	4
	Q2	0.1	3.4	17.2	2
	Q3	0.0	5.9	15.1	0
	Q4	0.0	1.9	19.0	0
	MEAN	0.1	4.3	16.0	2
	RANGE	0 - 0.2	1.9 - 5.9	12.6 - 19	0 - 4
GP-17	Q1	5.2	6.0	0.4	>100
	Q2	0.1	0.1	20.5	2
	Q3	1.0	6.2	9.6	20
	Q4	0.0	0.2	21.1	0
	MEAN	1.6	3.1	12.9	32
	RANGE	0 - 5.2	0.1 - 6.2	0.4 - 21.1	0 - >100
GP-18	Q1	0.0	1.0	18.0	0
	Q2	0.1	1.8	16.6	2
	Q3	0.1	0.7	20.8	2
	Q4	0.0	0.1	21.6	0
	MEAN	0.1	0.9	19.3	1
	RANGE	0 - 0.1	0.1 - 1.8	16.6 - 21.6	0 - 2

Notes:
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LEL = Lower Explosive Limit

Table 4b
Field Monitoring Results for Landfill Gas (Probes)
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

WELL ID	DATE	METHANE (%)	CARBON DIOXIDE (%)	OXYGEN (%)	LEL (%)
GP-19	Q1	0.0	0.3	20.3	0
	Q2	0.1	0.9	20.0	2
	Q3	0.1	0.4	20.0	2
	Q4	NR	NR	NR	NR
	MEAN	0.1	0.5	20.1	1
	RANGE	0 - 0.1	0.3 - 0.9	20 - 20.3	0 - 2
GP-21	Q1	13.4	11.0	0.7	>100
	Q2	3.3	10.0	2.8	66
	Q3	1.9	13.1	4.4	38
	Q4	0.0	1.8	19.9	0
	MEAN	4.7	9.0	7.0	93
	RANGE	0 - 13.4	1.8 - 13.1	0.7 - 19.9	0 - >100
GP-22	Q1	0.0	5.4	6.6	0
	Q2	0.8	0.8	20.7	16
	Q3	0.0	0.3	20.4	0
	Q4	NR	NR	NR	NR
	MEAN	0.3	2.2	15.9	5
	RANGE	0 - 0.8	0.3 - 5.4	6.6 - 20.7	0 - 16
GP-26	Q1	0.0	5.3	13.0	0
	Q2	0.1	3.1	18.2	2
	Q3	0.0	1.5	15.7	0
	Q4	0.0	3.8	17.1	0
	MEAN	0.0	3.4	16.0	1
	RANGE	0 - 0.1	1.5 - 5.3	13 - 18.2	0 - 2
GP-28	Q1	0.2	0.5	19.2	4
	Q2	0.1	2.7	13.6	2
	Q3	0.0	0.5	20.2	0
	Q4	0.0	0.2	21.2	0
	MEAN	0.1	1.0	18.6	2
	RANGE	0 - 0.2	0.2 - 2.7	13.6 - 21.2	0 - 4
GP-30	Q1	0.0	0.0	21.2	0
	Q2	0.1	5.1	13.0	2
	Q3	0.0	0.1	20.3	0
	Q4	0.0	0.2	20.5	0
	MEAN	0.0	1.4	18.8	1
	RANGE	0 - 0.1	0 - 5.1	13 - 21.2	0 - 2
GP-33	Q1	1.9	5.0	13.9	38
	Q2	0.1	4.4	15.8	2
	Q3	0.5	1.1	17.2	10
	Q4	0.0	0.6	20.6	0
	MEAN	0.6	2.8	16.9	13
	RANGE	0 - 1.9	0.6 - 5	13.9 - 20.6	0 - 38
GP-36	Q1	39.5	22.2	3.4	>100
	Q2	71.9	30.5	1.5	>100
	Q3	40.2	21.2	3.3	>100
	Q4	57.6	25.1	0.0	>100
	MEAN	52.3	24.8	2.1	>100
	RANGE	39.5 - 71.9	21.2 - 30.5	0 - 3.4	>100

Notes:
Highlighted text indicates summary statistic
NA = not analyzed
ppm = parts per million

Table 4b
Field Monitoring Results for Landfill Gas (Probes)
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

WELL ID	DATE	METHANE (%)	CARBON DIOXIDE (%)	OXYGEN (%)	LEL (%)
LEL = Lower Explosive Limit					

Table 5
Positive Laboratory Analytical Results for Groundwater
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

SAMPLE IDENTIFICATION		MW-03-S			MW-03-BR			MW-04-S			MW-04-S (DUP)			MW-04-DO			MW-04-DO (DUP3)			MW-05-S			MW-06-DO			MW-07-DO			MW-07-BR			MW-07-BR (DUP2)		
SCREEN LOCATION		Shallow Overburden			Bedrock			Shallow Overburden			Deep Overburden			Deep Overburden			Deep Overburden			Shallow Overburden			Deep Overburden			Deep Overburden			Bedrock			Bedrock		
WELL TYPE		Monitoring			Monitoring			Monitoring			Monitoring			Monitoring			Monitoring			Monitoring			Monitoring			Monitoring			Monitoring			Monitoring		
SAMPLE DATE	Project Action Limit*	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean
ANALYTE																																		
Total Metals (mg/L)																																		
Aluminum	3.7	0.066	<0.010	0.066	<0.020	<0.010	<MQL	<0.05	<0.010	<MQL	NA	<0.010	NA	<0.05	<0.010	<MQL	<0.05	NA	NA	<0.020	<0.010	<MQL	<0.05	<0.010	<MQL	0.820	1.580	1.20	0.172	0.0045	0.088	0.142	0.047	0.095
Antimony	0.0060	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	NA	<0.0005	NA	<0.0010	<0.0005	<MQL	<0.0010	NA	NA	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	0.0014	<0.005	0.002	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL
Arsenic	0.0100	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	0.0013	0.0009	<MQL	NA	0.0009	NA	0.0012	0.0014	0.0013	<0.0010	NA	NA	<0.0010	<0.0005	<MQL	<0.0010	0.0007	<MQL	<0.0010	0.0006	0.001	0.0011	0.0007	0.0009	<0.0010	0.0007	0.0007
Cadmium	0.0050	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	NA	<0.0005	NA	<0.0010	<0.0005	<MQL	<0.0010	NA	NA	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.005	<MQL	<.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL
Chromium	0.1100	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	NA	<0.0005	NA	<0.0010	<0.0005	<MQL	<0.0010	NA	NA	0.0014	<0.0005	<MQL	<0.0010	<0.0005	<MQL	0.0029	0.0032	0.0031	0.0023	0.0016	0.0020	0.0020	0.0017	0.0019
Lead	0.0150	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	NA	<0.0005	NA	<0.0010	<0.0005	<MQL	<0.0010	NA	NA	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	0.0020	0.0020	0.002	0.0012	<0.0005	0.0007	<0.0010	<0.0005	<MQL
Manganese	0.3000	0.0226	0.0016	0.0121	0.0101	0.1796	0.0949	**1.649**	**3.951**	**2.800**	NA	**3.666**	NA	**1.715**	**2.297**	**2.006**	**4.484**	NA	NA	0.0021	0.0017	0.0019	**1.469**	**1.273**	**1.371**	**0.8326**	**0.4514**	**0.6420**	0.0078	0.0028	0.0053	0.0061	0.0030	0.0046
Sodium	NE	8.8	11	9.9	12.0	15	14	12.0	8.0	10.0	NA	8.1	NA	12.0	15.0	13.5	7.7	NA	NA	10.0	12.0	11.0	17.0	18	18	17.0	16	17	64.0	57	61	65.0	57	61
Vanadium	0.2600	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	NA	<0.0005	NA	<0.0010	<0.0005	<MQL	<0.0010	NA	NA	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	0.0033	0.0034	0.0034	0.0047	0.0035	0.0041	0.0044	0.0035	0.0040
Zinc	11	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0100	0.0177	0.0114	NA	0.0177	NA	<0.0100	<0.0050	<MQL	<0.0100	NA	NA	<0.0010	<0.0050	<MQL	<0.0100	<0.0050	<MQL	0.1104	0.0818	0.0961	0.0115	0.0127	0.0121	0.0169	0.0145	0.0157
Volatile Organic Compounds (µg/L)																																		
1,1-Dichloroethane	800	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	NA	<0.75	NA	<0.75	<0.75	<0.75	<0.75	NA	NA	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	1.3	1.4	1.4	1.3	1.5	1.4
Chlorobenzene	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.94	<0.50	0.60	NA	<0.50	NA	0.96	<0.50	0.61	<0.50	NA	NA	<0.50	<0.50	<0.50	2.1	1.8	2.0	4.3	2.4	3.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	0.73	NA	<0.50	NA	1.2	0.57	0.89	<0.50	NA	NA	<0.50	<0.50	<0.50	2.2	2.0	2.1	1.1	0.87	0.99	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	21,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10	1.1	5.6	NA	1.2	NA	9.9	5.1	7.5	1.4	NA	NA	<1.0	<1.0	<1.0	16	16	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	<0.50	<0.50	<0.50	<0.50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.54	0.70	0.62	0.53	0.68	0.61
Ethyl ether	1,200	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA	<2.5	NA	<2.5	<2.5	<2.5	<2.5	NA	NA	<2.5	<2.5	<2.5	4.5	4.2	4.4	<2.5	3.0	3.0	4.1	5.5	4.8	4.0	5.4	4.7
Isopropylbenzene	660	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	<0.50	<0.50	<0.50	<0.50	NA	NA	<0.50	<0.50	<0.50	0.61	0.51	0.56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl tert butyl ether	12.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
bold, highlighted text indicates equals or exceeds the Project Action Limit (PAL)
bold, patterned text indicates PAL lower than method quantification limit
Highlighted text indicates summary statistic
mg/L - milligrams per liter
µg/L - micrograms per liter
NE - none established
NA - not analyzed/not applicable
< - not detected above the method quantitation limit

SAMPLE IDENTIFICATION		MW-11-S			MW-11-DO			MW-11-BR			MW-12-S			MW-12-DO			MW-13-S			MW-13-S (DUP)			RES #7			RES #10			RES-11		
SCREEN LOCATION		Shallow Overburden			Deep Overburden			Bedrock			Shallow Overburden			Deep Overburden			Shallow Overburden			Shallow Overburden			(Residential)			(Residential)			(Residential)		
WELL TYPE		Monitoring			Monitoring			Monitoring			Monitoring			Monitoring			Monitoring			Monitoring			Residential			Residential			Residential		
SAMPLE DATE	Project Action Limit*	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean
ANALYTE																															
Total Metals (mg/L)																															
Aluminum	3.7	<0.05	<0.010	<MQL	<0.05	<0.010	<MQL	<0.05	0.045	0.035	0.155	0.015	0.085	<0.020	0.306	0.158	0.502	0.099	0.301	0.495	0.104	0.300	<0.05	0.011	0.018	<0.05	<0.010	<MQL	<0.05	0.013	0.019
Antimony	0.0060	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0050	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL
Arsenic	0.0100	0.0023	0.0016	0.00195	<0.0010	<0.0005	<MQL	<0.0010	0.0006	0.0006	0.0064	0.0010	0.0037	<0.0010	0.0182	0.0182	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL
Cadmium	0.0050	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	0.0127	0.0066	<0.0010	<0.0050	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL
Chromium	0.1100	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0050	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL
Lead	0.0150	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0050	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	0.0107	0.0009	0.0058
Manganese	0.3000	**2.502**	**2.034**	**2.268**	**2.178**	**1.948**	**2.063**	0.0023	0.0036	0.0030	**19.27**	**2.360**	**10.82**	**1.555**	**39.16**	**20.36**	0.0239	0.1144	0.0692	0.0244	0.1217	0.0731	0.0023	0.0033	0.0028	<0.0010	<0.0005	<MQL	0.1170	0.1505	0.1338
Sodium	NE	17.0	16	17	24.0	27.0	25.5	77.0	80.0	78.5	7.9	6.7	7.3	6.0	8.7	7.4	9.2	11	10	9.2	11	10	28.0	25	27	26.0	<2.0	26	5.2	5.9	5.6
Vanadium	0.2600	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0050	<MQL	<0.0010	<0.0005	<MQL	<0.0010	<0.0005	<MQL	<0.0010	0.0006	0.0006	<0.0010	<0.0005	<MQL	0.0014	<0.0005	0.0008
Zinc	11	<0.0100	<0.0050	<MQL	<0.0100	0.0079	0.0065	<0.0100	<0.0050	<MQL	<0.0100	0.0685	0.0368	<0.0010	0.0650	0.0328	<0.0010	<0.0050	<MQL	<0.0010	<0.0050	<MQL	<0.0100	0.0076	0.0063	<0.0100	0.0052	0.0051	0.0115	<0.0050	0.0070
Volatile Organic Compounds (µg/L)																															
1,1-Dichloroethane	800	0.87	<0.75	0.62	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
Chlorobenzene	100	3.3	2.6	3.0	2.1	0.68	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	5	2.4	1.8	2.1	1.9	0.74	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	21,000	16	13	15	12	3.0	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethyl ether	1,200	4.6	4.1	4.4	4.0	<2.5	4.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Isopropylbenzene	660	0.75	0.59	0.67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl tert butyl ether	12.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	2.6	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
bold, highlighted text indicates equals or exceeds the Project Action Limit (PAL)
bold, patterned text indicates PAL lower than method quantification limit
Highlighted text indicates summary statistic
mg/L - milligrams per liter
µg/L - micrograms per liter
NE - none established
NA - not analyzed/not applicable
< - not detected above the method quantitation limit

Table 6
Positive Laboratory Analytical Results for Surface Water
Rose Hill Landfill
Rose Hill Road
South Kingstown, Rhode Island
Year 1

SAMPLE IDENTIFICATION		SW-01			SW-02			SW-04			SW-06			SW-09			SW-09 (DUP)			SW-12			SW-13			SW-17		
WATERBODY		Unnamed Tributary			Saugatucket River			Saugatucket River			Saugatucket River			Mitchell Brook			Mitchell Brook			Mitchell Brook			Mitchell Brook			Saugatucket River		
	Project Action Limit*	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean	Q1	Q2	Mean
ANALYTE																												
Total Metals (mg/L)																												
Aluminum	0.0870	**0.117**	**0.118**	**0.118**	**0.980**	0.076	**0.528**	**0.191**	**0.096**	**0.144**	**0.279**	0.049	**0.164**	**0.165**	**0.352**	**0.259**	**0.161**	**0.375**	**0.268**	**0.180**	0.065	**0.123**	**0.193**	**0.238**	**0.216**	**0.185**	**0.382**	**0.284**
Arsenic	0.1500	0.0012	0.0026	0.0019	<0.005	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0005	<0.0005	<0.0005	<0.0020	<0.0005	<MQL
Chromium	0.0110	<0.0050	<0.0005	<MQL	<0.005	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0005	<0.0005	<0.0005	<0.0020	0.0008	0.0009
Copper	1.3	0.0010	0.0017	0.0014	0.0016	0.0007	0.0012	<0.0020	0.0008	0.0009	<0.0020	<0.0005	<MQL	<0.0020	0.0013	0.0013	<0.0020	0.0013	0.0012	<0.0020	0.0005	0.0008	0.0006	0.0009	0.0008	<0.0020	0.0009	0.0010
Iron	1.0	0.687	**3.44**	**2.06**	0.205	0.275	0.240	0.356	**2.09**	**1.22**	**1.17**	**1.49**	**1.33**	0.200	**3.61**	**1.91**	0.216	**3.31**	**1.76**	0.682	**5.52**	**3.10**	0.087	0.490	0.289	0.414	**4.17**	**2.29**
Lead	0.0150	**0.0253**	**0.0608**	**0.0431**	0.0007	0.0006	0.0007	<0.0020	0.0010	0.0010	<0.0020	<0.0005	<MQL	<0.0020	0.0043	0.0043	<0.0020	0.0036	0.0023	<0.0020	0.0007	0.0009	<0.0005	0.0009	0.0009	<0.0020	0.0051	0.0031
Manganese	0.3000	0.1345	0.2250	0.1798	0.0212	0.0311	0.0262	0.0797	0.2698	0.1748	0.1075	0.2945	0.2010	0.0442	**0.4813**	0.2628	0.0428	**0.4797**	0.2613	0.0975	**1.412**	**0.7548**	0.0148	0.0450	0.0299	0.0773	**0.6650**	**0.3712**
Nickel	4.6	0.0006	0.001	0.001	0.0005	<0.0005	0.0004	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	0.0008	0.0008	<0.0020	0.0008	0.0009	<0.0020	0.0009	0.0010	<0.0005	<0.0005	<0.0005	<0.0020	<0.0005	<MQL
Zinc	5.0	<0.0050	0.0368	0.0197	0.1730	0.0079	0.0905	<0.0020	0.0190	0.0100	<0.0020	0.0314	0.0162	<0.0020	0.0207	0.0207	<0.0020	0.0719	0.0365	<0.0020	0.0163	0.0087	0.0068	0.0122	0.0095	<0.0020	0.0098	0.0054
Dissolved Metals (mg/L)																												
Aluminum	0.0870	**0.107**	0.034	0.071	**0.188**	0.036	**0.112**	**0.153**	0.029	**0.091**	**0.115**	0.020	0.068	**0.142**	0.029	0.086	**0.145**	**0.182**	**0.164**	**0.141**	<0.010	0.073	**0.185**	**0.122**	**0.1535**	**0.156**	**0.220**	**0.188**
Arsenic	0.1500	<0.0050	0.0018	0.0034	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0005	<0.0005	<0.0005	<0.0200	<0.0005	<MQL
Chromium	0.0110	0.001	<0.0005	0.0006	0.0005	<0.0005	0.0015	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0020	<0.0005	<MQL	<0.0005	<0.0005	<0.0005	0.0025	<0.0005	0.0014
Copper	1.3	0.0010	0.0012	0.0011	<0.0020	0.0006	0.0004	<0.0020	0.0017	0.0014	<0.0020	0.0007	0.0009	<0.0020	0.0011	0.0011	<0.0020	0.0022	0.0016	<0.0020	0.0007	0.0009	0.0018	0.0012	0.0015	<0.0020	<0.0005	<MQL
Iron	1.0	0.687	**1.45**	**1.07**	0.198	0.160	0.179	0.240	0.268	0.254	0.386	0.271	0.329	<0.200	0.231	0.166	<0.200	**2.20**	**1.15**	0.360	0.109	0.235	0.099	0.263	0.181	0.220	0.329	0.275
Lead	0.0150	**0.0253**	0.0138	0.0196	0.0008	0.0006	0.0007	<0.0020	0.0008	0.0009	<0.0020	<0.0005	<MQL	<0.0020	0.0006	0.0008	<0.0020	0.0040	0.0025	<0.0020	<0.0005	<MQL	<0.005	0.0007	0.001	<0.0200	<0.0005	<MQL
Manganese	0.3000	0.1345	0.1317	0.1331	0.0232	0.0220	0.0226	0.0720	0.1708	0.1214	0.0829	0.2334	0.1582	0.0257	**0.3606**	0.1932	0.0338	**0.4502**	0.2420	0.0818	**1.257**	**0.6694**	0.1560	0.0119	0.0840	0.0439	**0.3277**	**0.1858**
Nickel	4.6	0.0006	<0.0005	0.0004	0.0006	<0.0005	0.0004	<0.0200	<0.0005	<MQL	<0.0200	<0.0005	<MQL	<0.0200	0.0005	0.0053	<0.0200	0.0007	0.0054	<0.0200	0.0007	0.0054	0.0005	<0.0005	0.0005	0.0087	<0.0005	0.0045
Zinc	5.0	<0.0050	0.0085	0.0055	0.1099	<0.0050	0.0562	<0.0200	0.0133	0.0117	<0.0200	<0.0050	<MQL	<0.0200	0.0328	0.0214	<0.0200	0.0096	0.0098	<0.0200	0.0087	0.0094	0.0060	0.0074	0.0067	<0.0200	0.0052	0.0076
Total Organic Carbon, Ammonia, Nitrate (mg/L)																												
Total Organic Carbon	NE	7.7	10.0	8.9	8.1	2.8	5.5	7.6	3.5	5.6	4.7	3.2	4.0	4.6	4.5	4.6	4.6	4.5	4.6	6.7	3.5	5.1	5.1	6.8	6.0	7.7	3.5	5.6
Nitrogen, Ammonia	NE	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	0.450	0.325	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	2.16	0.590	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400
Nitrogen, Nitrate	10	0.18	<0.10	0.12	0.86	0.87	0.87	0.35	0.91	0.63	0.17	0.84	0.51	0.11	0.15	0.13	<0.10	0.17	0.17	0.30	0.37	0.34	0.12	0.20	0.16	0.37	0.10	0.24
Nitrogen, Total Kjeldahl	NE	0.54	NA	NA	0.58	NA	NC	<0.50	NA	NC	<0.50	NA	NC	<0.50	NA	NC	<0.50	NA	NC	<0.50	NA	NC	<0.50	NA	NC	<0.50	NA	NC
Phosphorus	NE	0.02	0.083	0.05	0.03	0.026	0.03	0.01	0.029	0.02	0.010	0.014	0.01	<0.01	0.070	0.038	<0.01	0.056	0.031	0.01	0.013	0.01	<0.01	0.044	0.04	0.01	0.057	0.03
Sulfide	0.1		<0.10	NA	NA	<0.10	NA	<0.10	<0.10	NA	<0.10	<0.10	NA	<0.10	<0.10	NA	<0.10	<0.10	NA	<0.10	<0.10	NA	NA	<0.10	NA		<0.10	
Hardness	NE		13	15	13	21	17	13	22	18	12	25	19	10	14	12	9	14	12	14	42	28	9	10	9	14	21	18

Notes;
Q1 - first quarter, Q-2 second quarter
bold, highlighted text indicates equals or exceeds the Project Action Limit (PAL)
Highlighted text indicates summary statistic
mg/L - milligrams per liter
NA - not analyzed
NC - not calculated
MQL - method quantitation limit
< - not detected above the listed MQL
for mean where analyte detected in a single sample, 1/2 value of MQL used in calculation

Table 7

Positive Laboratory Analytical Results for Landfill Gas (VOCs, First through Fourth Quarters)

Rose Hill Landfill

Rose Hill Road

South Kingstown, Rhode Island

Year 1

SAMPLE IDENTIFICATION		GP-11						GP-12*	GP-14*	GP-21						GV-3						GV-9					
	*Project Action Limit (ppbv)	ppbv						ppbv	ppbv	ppbv						ppbv						ppbv					
SAMPLE DATE		Q1	Q2	Q3	Q4	RANGE	MEAN	Q4	Q4	Q1	Q2	Q3	Q4	RANGE	MEAN	Q1	Q2	Q3	Q4	RANGE	MEAN	Q1	Q2	Q3	Q4	RANGE	MEAN
ANALYTE																											
Volatile Organic Compounds in Air																											
1,1,1-Trichloroethane	700	<5.00	<5.00	<5.00	<2.00	<2.00 - <5.00	<MQL	<2.00	84.9	<2.00	<5.00	<0.400	<0.200	<0.200 - <5.00	<MQL	30.0	102	64.1	NA	30 - 102	65.4	18.0	<0.400	<0.400	NA	<0.400 - 18	6.13
1,1-Dichloroethane	0.1	**<5.00**	**85.6**	**97.1**	**95.3**	**<5.00 - 97.1**	**70.1**	**<2.00**	**<2.00**	**<2.00**	**<5.00**	**<0.400**	**0.297**	**<0.200 - <5.00**	**0.999**	**37.4**	**303**	**70.2**	NA	**37.4 - 303**	**136.9**	**10.4**	**<0.400**	**<0.400**	NA	**<0.400 - 10.4**	**3.60**
1,1-Dichloroethene	0.57	**251**	**<5.00**	**<5.00**	**<2.00**	**<2.00 - 251**	**64.3**	**<2.00**	**<2.00**	**<2.00**	**<5.00**	<0.400	<0.200	<0.200 - **<5.00**	<MQL	**<23.6**	**40.3**	**60.6**	NA	**<23.6 - 60.6**	**37.6**	**<2.00**	<0.400	<0.400	NA	<0.400 - **<2.00**	<MQL
2-Butanone	1,000	13.5	127	149	11.0	11.0 -149	75.1	3.93	<2.00	11.9	357	10.0	0.744	0.744 - 357	94.9	<23.6	444	<58.1	NA	<23.6 - 444	162	12.0	86.8	6.77	NA	6.77 - 86.8	35.2
Benzene	9	**83.9**	**23.8**	**38.2**	**74.4**	**23.8 - 83.9**	**55.1**	**24.2**	<2.00	2.40	<5.00	1.13	0.342	0.342 - <5.0	1.59	**<23.6**	**35.0**	**<58.1**	NA	**<23.6 - <58.1**	**25.3**	2.91	1.11	<0.400	NA	<0.400 - 2.91	1.41
Carbon disulfide	200	<5.00	6.04	<5.00	<2.00	<2.00 - 6.04	3.01	<2.00	<2.00	2.00	6.17	1.74	0.202	0.202 - 6.17	2.53	<23.6	<5.00	<58.1	NA	<5.00 - <58.1	<MQL	<2.00	0.924	0.530	NA	0.53 - <2.00	0.818
Chloroethane	4,000	1,760	403	992	**>1,000**	403 - 1760	1039	210	427	2.12	<5.00	<0.400	0.227	0.227 - 2.12	1.26	251	1,040	588	NA	251 -1,040	626	43.3	0.552	<0.400	NA	<0.400 - 43.3	14.7
Chloroform	0.04	**5.86**	**<5.00**	**<5.00**	**<2.00**	**<2.00 - 5.86**	**2.97**	**<2.00**	**<2.00**	**<2.00**	**<5.00**	**<0.400**	**0.225**	**0.225 - <5.00**	**0.981**	**<115**	**7.82**	**<58.1**	NA	**7.82 - <115**	**31.5**	**<2.00**	**<0.400**	**<0.400**	NA	**<0.400 - <2.00**	**<MQL**
Chloromethane	200	<5.00	5.50	<5.00	<2.00	<2.00 - 5.5	3.13	<2.00	<2.00	2.32	7.67	1.55	0.225	0.225 - 7.67	2.94	<23.6	<5.00	<58.1	NA	<5.00 - <58.1	<MQL	<2.00	2.33	1.12	NA	1.12 - 2.33	1.48
cis-1,2-Dichloroethene	200	<5.00	<5.00	<5.00	57.9	<5.00 - 57.9	16.4	19.1	34.8	<2.00	108	<0.400	50.4	<0.400 - 108	39.9	**1,850**	**8,830**	**12,300**	NA	**1,850 - 12,300**	**7,660**	**277**	4.86	0.688	NA	0.688 - **277**	94.2
Cyclohexane	2,000	222	40.6	89.1	192	40.6 - 222	136	127	59.9	17.5	<5.00	0.578	0.259	0.259 - 17.5	5.21	37.100	120	130	NA	37.1 - 130	95.7	14.2	0.485	<0.400	NA	<0.400 - 14.2	4.96
Dichlorodifluoromethane	100	**1,300**	**322**	**456**	**691**	**322 - 1300**	**692**	**161**	**548**	<2.00	<5.00	0.773	0.590	0.59 - <5.00	1.22	<23.6	76.5	**103**	NA	<23.6 - **103**	63.8	11.4	0.440	0.475	NA	0.44 - 11.4	4.11
Freon-114	NE	676	195	265	411	195 - 676	387	99	319	2.52	<5.00	<0.400	<0.200	<2.00 - <5.00	1.33	<23.6	38.1	<58.1	NA	<23.6 - <58.1	26.3	3.60	<0.400	<0.400	NA	<0.400 - 3.6	1.33
Methylene chloride	300	12.2	<12.5	<12.5	<5.00	<5.00 - 12.2	6.8	<2.00	<2.00	<2.00	<12.5	1.00	<0.500	<0.500 - <12.5	2.69	<23.6	23.7	<145	NA	<23.6 - <145	36.0	<2.00	1.13	<1.00	NA	<1.00 - <2.00	0.877
p/m-Xylene	700	<10.0	<10.00	<10.0	<4.00	<4.00 - <10.00	<MQL	<4.00	<4.00	<4.00	<10.00	<0.800	<0.400	<0.400 - <10.00	<MQL	<47.3	<10.00	<116	NA	<10.00 - <116	<MQL	<4.00	3.16	<0.800	NA	<0.800 - <4.00	1.85
o-Xylene	700	<5.00	<5.00	<5.00	2.22	2.22 - <5.00	2.43	<2.00	<2.00	<2.00	<5.00	<0.400	<0.200	<0.200 - <5.00	<MQL	<23.6	<5.00	<58.1	NA	<5.00 - <58.1	<MQL	<2.00	0.859	<0.400	NA	<0.400 - <2.00	0.686
n-Hexane	50	**469**	**95.3**	**279**	**495**	**95.3 - 495**	**335**	**249**	**221**	43.8	7.64	2.20	0.361	0.361 - 43.8	13.5	**61.9**	**227**	**245**	NA	**61.9 - 245**	**178**	24.6	1.99	0.451	NA	0.451 - 24.6	9.01
Propylene	2,000	<5.00	<5.00	<5.00	<2.00	<2.00 - <5.00	<MQL	<2.00	<2.00	<2.00	<5.00	<0.400	<0.200	<0.200 - <5.00	<MQL	<23.6	<5.00	<58.1	NA	<58.1	<MQL	<2.00	31.6	3.63	NA	<2.00 - 31.6	12.08
Tetrachloroethene	0.03	**<5.00**	**<5.00**	**<5.00**	**<2.00**	<2.00 - <5.00	<MQL	**<2.00**	**<2.00**	**<2.00**	**<5.00**	**<0.400**	**<0.200**	**<0.200 - <5.00**	**<MQL**	**<23.6**	**<5.00**	**227**	NA	**<5.00 - 227**	**80.4**	**<2.00**	**1.06**	**<0.400**	NA	**<0.400 - <2.00**	**0.753**
Toluene	100	22.3	7.92	10.7	**297**	7.92 - **297**	84.5	**297**	6.25	2.86	<5.00	76.2	0.635	0.635 - 76.2	20.5	<23.6	84.1	60.9	NA	<23.6 - 84.1	52.3	7.92	3.66	96.40	NA	3.66 - 96.4	36.0
trans-1,2-Dichloroethene	20	6.02	<5.00	<5.00	3.26	3.26 - 6.02	3.57	<2.00	<2.00	<2.00	<5.00	<0.400	0.323	0.323 - <5.00	1.01	**<23.6**	**30.2**	**<58.1**	NA	**<23.6 - <58.1**	**23.7**	<2.00	<0.400	<0.400	NA	<0.400 - <2.00	<MQL
Trichloroethene	90	<5.00	<5.00	<5.00	21.6	<5.00 - 21.6	7.28	6.80	13.1	<2.00	<5.00	0.607	17.1	0.607 - 17.1	5.30	69.2	**410**	**1,720**	NA	69.2 - **1,720**	**733**	27.8	0.754	0.542	NA	0.542 - 27.8	9.70
Trichlorofluoromethane	200	<5.00	<5.00	<5.00	<2.00	<2.00 - <5.00	<MQL	<2.00	<2.00	<2.00	<5.00	<0.400	0.208	0.208 - <5.00	0.977	<23.6	<5.00	<58.1	NA	<5.00 - <58.1	<MQL	4.50	<0.400	<0.400	NA	<0.400 - 4.5	1.63
Vinyl chloride	40	**515**	**99.5**	**439.0**	**436**	**99.5 - 515**	**372**	4.22	12.8	2.0	**40.6**	<0.400	2.30	<0.400 - **40.6**	11.3	**3,740**	**8,860**	**11,400**	NA	**3740 - 11400**	**8,000**	**126**	1.20	0.508	NA	0.508 - **126**	**42.6**

Notes:

bold, highlighted text indicates equals or exceeds the Project Action Limit (PAL)

bold, patterned text indicates PAL lower than method quantitation limit

bold, patterned text indicates PAL higher than the method quantitation limit

Highlighted text indicates summary statistic

Q1 - first quarter, Q2 - second quarter, Q3 - third quarter, Q4 - fourth quarter

* GP-11 and GP-14 only sampled in Q4, therefore no summary statistics are given

ppbv - parts per billion by volume

NA - not analyzed

ug/kg - micrograms per kilogram

MQL - method quantitation limit

< - not detected above the MQL

APPENDIX C
Screen3 Dispersion Modeling Results

SCREEN 3 ASSUMPTIONS		
Parameter	**Number**	**Description**
Source Type	Area	Used for landfills
Dispersion Area	Urban	**Changed from Rural to URBAN on 9/18/2008 per DEM request**
Flagpole Receptor (ft)	0	when left at 0, model assumes receptor at ground level
Emission Rate (g/s/m^2)	9.61E-06	Assume unity emission rate of 1 g/s to provide max 1 hour concentrations
Source Release Height (ft)	37	Stack Height = 10', High Point - Base of Landfill = 102-76 = 26', Low Point - Base of Landfill = 78 - 50 = 28 --> avg is 27 + 10' = 37'
Larger Side Length of Area (ft)	1600	Measured appx greatest length
Smaller Side Length of Area (ft)	700	Measured appx greatest width
Search through range of windo directrions?	Yes	Manual says this is regulatory default action and is used in most applications (If answer No, prevailing wind is Southwest with angle of 225º)
Anemometer Height	6.1 m	**Changed from 10m default to 6.1m on 9/18/2008 per DEM request**
Simple Flat Terrain	N/A	Terrain Heights don't exceed stack base
Automated Distances	N/A	Min Distance: 1m (road is close to landfill), Max Distance 3000 meters (generic assumption)

LandGEM ASSUMPTIONS		
Parameter	**Number**	**Description**
Open Year	1967	From EPA case study
Closure Year	1982	From EPA case study
Methane Generation Rate, k	.04 (1/yr)	**Changed from Model default (.5) to Model Run #3 per Final RD Report 10/16/2008**
Potential Methane Generation Capacity, Lo	100 m^3/Mg	**Changed from Model default (170) to Model Run #3 per Final RD Report 10/16/2008**
NMOC concentration	4500 ppmV	**Changed from Model Default (4000) to value found in EPA case study 10/16/2008**
Methane Content	50% by volume	**Changed from Model default to Model Run #3 per Final RD Report 10/16/2008**
Waste Acceptance Rates	13179 Mg/yr	From EPA case study
Pollutants	-	90th Percentile Values from Q1, Q2, and Q3 lab data (GV 3 and 9)

		SUMMER DATA		SPRING DATA		FALL DATA			
		GV-3 (7/7/08)	GV-9 (7/8/08)	GV-3 (4/30/08)	GV-9 (4/30/08)	GV-3 (10/21/08)	GV-9 (10/21/08)	90th Percentile Values	
Volatile Organic Compounds in Air	**PAL**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppmv**
1,1,1-Trichloroethane	700	102	0.2	30.0	18.0	64.1	0.20	83.05	0.083
1,1-Dichloroethane	0.1	**303**	**0.2**	**37.4**	**10.4**	**70.2**	**0.20**	186.6	0.187
1,1-Dichloroethene	50	**40.3**	0.2	**46.8**	**3.96**	**60.6**	0.20	53.7	0.054
2-Butanone	1,000	444	86.8	11.8	12.0	29.05	6.77	265.4	0.265
Benzene	9	**35.0**	**1.11**	**11.8**	**2.91**	**29.1**	**0.20**	32.025	0.032
Carbon disulfide	200	2.5	0.924	11.8	1	29.05	0.530	20.425	0.020
Chloroethane	4000	1,040	0.552	251	43.3	588	0.20	814	0.814
Chloroform	0.04	**7.82**	**0.2**	**57.5**	**1**	**29.05**	**0.20**	43.275	0.043
Chloromethane	200	2.5	2.33	11.8	1	29.05	1.12	20.425	0.020
cis-1,2-Dichloroethene	200	**8,830**	4.86	**1,850**	**277**	**12,300**	0.688	10565	10.565
Cyclohexane	2,000	120	0.485	37.1	14.2	130	0.20	125	0.125
Dichlorodifluoromethane	100	76.5	0.440	11.8	11.4	**103**	0.475	89.75	0.090
Freon-114	NE	38.1	0.20	11.8	3.60	29.05	0.20	33.575	0.034
Methylene chloride	300	23.7	1.13	11.8	<2.00	72.5	0.50	52.98	0.053
p/m-Xylene	700	5	3.16	23.65	2	58	0.40	40.825	0.041
o-Xylene	700	2.5	0.859	11.8	1	29.05	0.20	20.425	0.020
n-Hexane	50	**227**	1.99	**61.9**	24.6	**245**	0.451	236	0.236
Propylene	2,000	2.5	31.6			29.05	3.63	30.835	0.031
Tetrachloroethene	0.03	**2.5**	**1.06**			**227**	**0.20**	159.65	0.160
Toluene	100	84.1	3.66	11.8	7.92	60.9	96.40	90.25	0.090
trans-1,2-Dichloroethene	20	**30.2**	0.2	**11.8**	1	**29.05**	0.20	29.625	0.030
Trichloroethene	90	**410**	0.754	69.2	27.8	**1,720**	0.542	1065	1.065
Trichlorofluoromethane	200	2.5	0.20	11.8	4.50	29	0.20	20.425	0.020
Vinyl chloride	40	**8,860**	**1.20**	**3,740**	**126**	**11,400**	**0.508**	10130	10.130

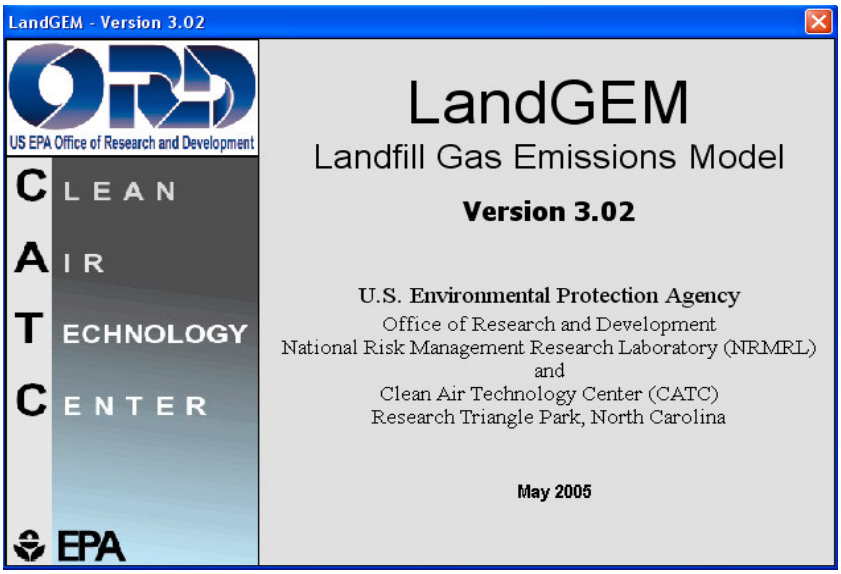
Maximum Annual Concentrations of COPCs

COPC	Concentration ($\mu g/m^3$)	PAL (micrograms/m^3)
Total landfill gas	9.092E+02	
Methane	2.429E+02	
Carbon dioxide	6.664E+02	
NMOC	1.174E+01	
1,1,1-Trichloroethane (methyl chloroform) - HAP	3.353E-04	3816.39
1,1,2,2-Tetrachloroethane - HAP/VOC	5.591E-03	
1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	5.604E-04	10.9
1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	1.585E-04	198.08
1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	1.229E-03	
1,2-Dichloropropane (propylene dichloride) - HAP/VOC	6.159E-04	
2-Propanol (isopropyl alcohol) - VOC	9.101E-02	
Acetone	1.231E-02	
Acrylonitrile - HAP/VOC	1.012E-02	
Benzene - No or Unknown Co-disposal - HAP/VOC	7.569E-05	28.73
Benzene - Co-disposal - HAP/VOC	2.602E-02	
Bromodichloromethane - VOC	1.538E-02	
Butane - VOC	8.800E-03	
Carbon disulfide - HAP/VOC	4.611E-05	622.31
Carbon monoxide	1.187E-01	
Carbon tetrachloride - HAP/VOC	1.863E-05	
Carbonyl sulfide - HAP/VOC	8.913E-04	
Chlorobenzene - HAP/VOC	8.521E-04	
Chlorodifluoromethane	3.404E-03	
Chloroethane (ethyl chloride) - HAP/VOC	1.590E-03	2636.7
Chloroform - HAP/VOC	1.555E-04	0.2
Chloromethane - VOC	3.058E-05	
Dichlorobenzene - (HAP for para isomer/VOC)	9.348E-04	
Dichlorodifluoromethane	5.858E-02	494.16
Dichlorofluoromethane - VOC	2.805E-04	
Dichloromethane (methylene chloride) - HAP	3.601E-02	
Dimethyl sulfide (methyl sulfide) - VOC	1.468E-02	
Ethane	8.104E-01	
Ethanol - VOC	3.768E-02	
Ethyl mercaptan (ethanethiol) - VOC	4.327E-03	
Ethylbenzene - HAP/VOC	1.479E-02	
Ethylene dibromide - HAP/VOC	5.689E-06	
Fluorotrichloromethane - VOC	3.162E-03	
Hexane - HAP/VOC	6.159E-04	176.09
Hydrogen sulfide	3.715E-02	
Mercury (total) - HAP	1.762E-06	
Methyl ethyl ketone - HAP/VOC	1.550E-02	
Methyl isobutyl ketone - HAP/VOC	5.763E-03	
Methyl mercaptan - VOC	3.642E-03	
Pentane - VOC	7.210E-03	
Perchloroethylene (tetrachloroethylene) - HAP	1.858E-02	
Propane - VOC	1.469E-02	
t-1,2-Dichloroethene - VOC	8.807E-05	79.23

Toluene - No or Unknown Co-disposal - HAP/VOC	2.511E-04	301.23
Toluene - Co-disposal - HAP/VOC	4.743E-01	
Trichloroethylene (trichloroethene) - HAP/VOC	4.238E-03	
Vinyl chloride - HAP/VOC	1.917E-02	102.17
Xylenes - HAP/VOC	1.318E-04	86.78
2-Butanone	5.787E-04	2946.87
Cyclohexane	3.186E-04	6878.63
Freon-114	1.760E-04	Not Established
Methylene Chloride	1.363E-04	1041.23
Propylene (Propene)	3.950E-05	3439.31
Tetrachloroethene	8.033E-04	0.2
Trichlorofluoromethane	3.998E-05	1122.76
o-Xylene	6.430E-05	86.78
cis-1,2-Dichloroethene	3.102E-02	792.32

Concentration = Emissions * MaxConc * .08

Note: Bold COPCs are Pollutants that were user-specified in LandGEM (they were actually measured in the field)



Summary Report

Landfill Name or Identifier: Rose Hill Landfill

Date: Monday, February 16, 2009

Description/Comments:

About LandGEM:

First-Order Decomposition Rate Equation:

$$Q_{CH_4} = \sum_{i=1}^{n} \sum_{j=0.1}^{1} k L_o \left(\frac{M_i}{10} \right) e^{-k t_{ij}}$$

Where,

Q_{CH4} = annual methane generation in the year of the calculation *(m^3/year)*
i = 1-year time increment
n = (year of the calculation) - (initial year of waste acceptance)
j = 0.1-year time increment
k = methane generation rate (*$year^{-1}$*)
L_o = potential methane generation capacity (*m^3/Mg*)

M_i = mass of waste accepted in the ith year (*Mg*)
t_{ij} = age of the jth section of waste mass M_i accepted in the ith year (*decimal years*, e.g., 3.2 years)

LandGEM is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of landfilled waste in municipal solid waste (MSW) landfills. The software provides a relatively simple approach to estimating landfill gas emissions. Model defaults are based on empirical data from U.S. landfills. Field test data can also be used in place of model defaults when available. Further guidance on EPA test methods, Clean Air Act (CAA) regulations, and other guidance regarding landfill gas emissions and control technology requirements can be found at http://www.epa.gov/ttnatw01/landfill/landflpg.html.

LandGEM is considered a screening tool — the better the input data, the better the estimates. Often, there are limitations with the available data regarding waste quantity and composition, variation in design and operating practices over time, and changes occurring over time that impact the emissions potential. Changes to landfill operation, such as operating under wet conditions through leachate recirculation or other liquid additions, will result in generating more gas at a faster rate. Defaults for estimating emissions for this type of operation are being developed to include in LandGEM along with defaults for convential landfills (no leachate or liquid additions) for developing emission inventories and determining CAA applicability. Refer to the Web site identified above for future updates.

Input Review

LANDFILL CHARACTERISTICS

Landfill Open Year	**1967**	
Landfill Closure Year (with 80-year limit)	**1982**	
Actual Closure Year (without limit)	***1982***	
Have Model Calculate Closure Year?	**No**	
Waste Design Capacity		*megagrams*

MODEL PARAMETERS

Methane Generation Rate, k	**0.040**	*$year^{-1}$*
Potential Methane Generation Capacity, L_o	**100**	*m^3/Mg*
NMOC Concentration	**4,500**	*ppmv as hexane*
Methane Content	**50**	*% by volume*

GASES / POLLUTANTS SELECTED

Gas / Pollutant #1:	**Total landfill gas**
Gas / Pollutant #2:	**Methane**
Gas / Pollutant #3:	**Carbon dioxide**
Gas / Pollutant #4:	**NMOC**

WASTE ACCEPTANCE RATES

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	*(short tons/year)*	*(Mg)*	*(short tons)*
1967	13,179	14,497	0	0
1968	13,179	14,497	13,179	14,497
1969	13,179	14,497	26,358	28,994
1970	13,179	14,497	39,537	43,491
1971	13,179	14,497	52,716	57,988
1972	13,179	14,497	65,895	72,485
1973	13,179	14,497	79,074	86,981
1974	13,179	14,497	92,253	101,478
1975	13,179	14,497	105,432	115,975
1976	13,179	14,497	118,611	130,472
1977	13,179	14,497	131,790	144,969
1978	13,179	14,497	144,969	159,466
1979	13,179	14,497	158,148	173,963
1980	13,179	14,497	171,327	188,460
1981	13,179	14,497	184,506	202,957
1982	13,179	14,497	197,685	217,454
1983	0	0	210,864	231,950
1984	0	0	210,864	231,950
1985	0	0	210,864	231,950
1986	0	0	210,864	231,950
1987	0	0	210,864	231,950
1988	0	0	210,864	231,950
1989	0	0	210,864	231,950
1990	0	0	210,864	231,950
1991	0	0	210,864	231,950
1992	0	0	210,864	231,950
1993	0	0	210,864	231,950
1994	0	0	210,864	231,950
1995	0	0	210,864	231,950
1996	0	0	210,864	231,950
1997	0	0	210,864	231,950
1998	0	0	210,864	231,950
1999	0	0	210,864	231,950
2000	0	0	210,864	231,950
2001	0	0	210,864	231,950
2002	0	0	210,864	231,950
2003	0	0	210,864	231,950
2004	0	0	210,864	231,950
2005	0	0	210,864	231,950
2006	0	0	210,864	231,950

WASTE ACCEPTANCE RATES (Continued)

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	*(short tons/year)*	*(Mg)*	*(short tons)*
2007	0	0	210,864	231,950
2008	0	0	210,864	231,950
2009	0	0	210,864	231,950
2010	0	0	210,864	231,950
2011	0	0	210,864	231,950
2012	0	0	210,864	231,950
2013	0	0	210,864	231,950
2014	0	0	210,864	231,950
2015	0	0	210,864	231,950
2016	0	0	210,864	231,950
2017	0	0	210,864	231,950
2018	0	0	210,864	231,950
2019	0	0	210,864	231,950
2020	0	0	210,864	231,950
2021	0	0	210,864	231,950
2022	0	0	210,864	231,950
2023	0	0	210,864	231,950
2024	0	0	210,864	231,950
2025	0	0	210,864	231,950
2026	0	0	210,864	231,950
2027	0	0	210,864	231,950
2028	0	0	210,864	231,950
2029	0	0	210,864	231,950
2030	0	0	210,864	231,950
2031	0	0	210,864	231,950
2032	0	0	210,864	231,950
2033	0	0	210,864	231,950
2034	0	0	210,864	231,950
2035	0	0	210,864	231,950
2036	0	0	210,864	231,950
2037	0	0	210,864	231,950
2038	0	0	210,864	231,950
2039	0	0	210,864	231,950
2040	0	0	210,864	231,950
2041	0	0	210,864	231,950
2042	0	0	210,864	231,950
2043	0	0	210,864	231,950
2044	0	0	210,864	231,950
2045	0	0	210,864	231,950
2046	0	0	210,864	231,950

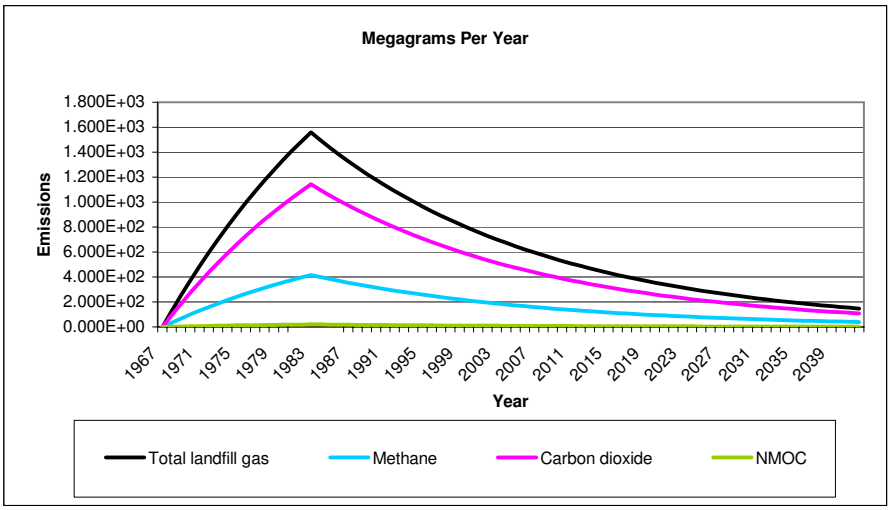
Pollutant Parameters

		Gas / Pollutant Default Parameters:		User-specified Pollutant Parameters:	
	Compound	Concentration (*ppmv*)	Molecular Weight	Concentration (*ppmv*)	Molecular Weight
Gases	Total landfill gas		0.00		
	Methane		16.04		
	Carbon dioxide		44.01		
	NMOC	4,000	86.18		
Pollutants	1,1,1-Trichloroethane (methyl chloroform) - HAP	0.48	133.41	0.08	133.41
	1,1,2,2-Tetrachloroethane - HAP/VOC	1.1	167.85		
	1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	2.4	98.97	0.19	98.97
	1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	0.20	96.94	0.05	96.94
	1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	0.41	98.96		
	1,2-Dichloropropane (propylene dichloride) - HAP/VOC	0.18	112.99		
	2-Propanol (isopropyl alcohol) - VOC	50	60.11		
	Acetone	7.0	58.08		
	Acrylonitrile - HAP/VOC	6.3	53.06		
	Benzene - No or Unknown Co-disposal - HAP/VOC	1.9	78.11	0.03	78.11
	Benzene - Co-disposal - HAP/VOC	11	78.11		
	Bromodichloromethane - VOC	3.1	163.83		
	Butane - VOC	5.0	58.12		
	Carbon disulfide - HAP/VOC	0.58	76.13	0.02	76.13
	Carbon monoxide	140	28.01		
	Carbon tetrachloride - HAP/VOC	4.0E-03	153.84		
	Carbonyl sulfide - HAP/VOC	0.49	60.07		
	Chlorobenzene - HAP/VOC	0.25	112.56		
	Chlorodifluoromethane	1.3	86.47		
	Chloroethane (ethyl chloride) - HAP/VOC	1.3	64.52	0.81	64.52
	Chloroform - HAP/VOC	0.03	119.39	0.04	119.39
	Chloromethane - VOC	1.2	50.49	0.02	50.49
	Dichlorobenzene - (HAP for para isomer/VOC)	0.21	147		
	Dichlorodifluoromethane	16	120.91		
	Dichlorofluoromethane - VOC	2.6	102.92	0.09	102.92
	Dichloromethane (methylene chloride) - HAP	14	84.94		
	Dimethyl sulfide (methyl sulfide) - VOC	7.8	62.13		
	Ethane	890	30.07		
	Ethanol - VOC	27	46.08		

Pollutant Parameters (Continued)

	Compound	Gas / Pollutant Default Parameters: Concentration (*ppmv*)	Molecular Weight	User-specified Pollutant Parameters: Concentration (*ppmv*)	Molecular Weight
Pollutants	Ethyl mercaptan (ethanethiol) - VOC	2.3	62.13		
	Ethylbenzene - HAP/VOC	4.6	106.16		
	Ethylene dibromide - HAP/VOC	1.0E-03	187.88		
	Fluorotrichloromethane - VOC	0.76	137.38		
	Hexane - HAP/VOC	6.6	86.18	0.24	86.18
	Hydrogen sulfide	36	34.08		
	Mercury (total) - HAP	2.9E-04	200.61		
	Methyl ethyl ketone - HAP/VOC	7.1	72.11		
	Methyl isobutyl ketone - HAP/VOC	1.9	100.16		
	Methyl mercaptan - VOC	2.5	48.11		
	Pentane - VOC	3.3	72.15		
	Perchloroethylene (tetrachloroethylene) - HAP	3.7	165.83		
	Propane - VOC	11	44.09		
	t-1,2-Dichloroethene - VOC	2.8	96.94	0.03	96.94
	Toluene - No or Unknown Co-disposal - HAP/VOC	39	92.13	0.09	92.13
	Toluene - Co-disposal - HAP/VOC	170	92.13		
	Trichloroethylene (trichloroethene) - HAP/VOC	2.8	131.40	1.07	131.40
	Vinyl chloride - HAP/VOC	7.3	62.50	10.13	62.50
	Xylenes - HAP/VOC	12	106.16	0.04	106.16
	2-Butanone			0.27	72.11
	Cyclohexane			0.13	84.16
	Freon-114			0.03	170.92
	Methylene Chloride			0.05	84.93
	Propylene (Propene)			0.03	42.08
	Tetrachloroethene			0.16	165.80
	Trichlorofluoromethane			0.01	137.37
	o-Xylene			0.02	106.17
	cis-1,2-Dichloroethene			10.57	96.95

Graphs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1.200E+03
1.000E+03
8.000E+02
6.000E+02
4.000E+02
2.000E+02
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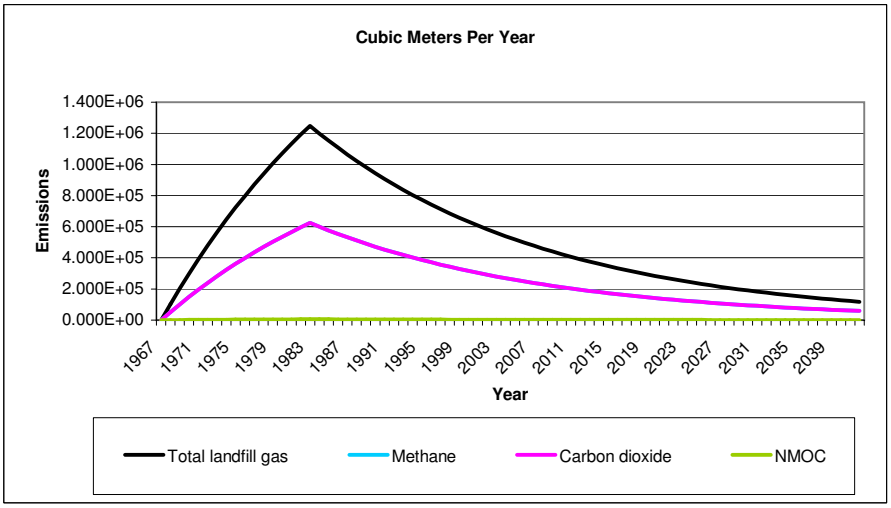
Year
Total landfill gas
Methane
Carbon dioxide
NMOC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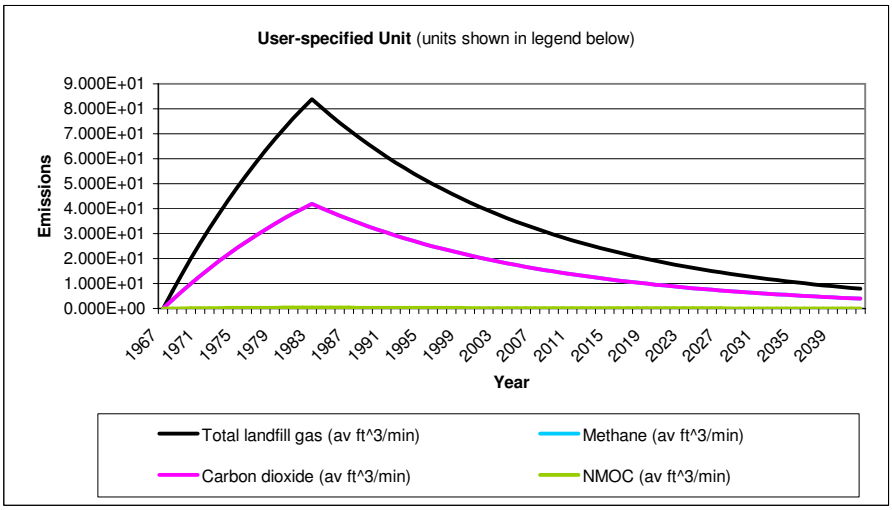
8.000E+05
6.000E+05
4.000E+05
2.000E+05
0.000E+00
1967 1971 1975 1979 1983 1987 1991 1995 1999 2003 2007 2011 2015 2019 2023 2027 2031 2035 2039
Year
Total landfill gas
Methane
Carbon dioxide
NMOC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6.000E+01
5.000E+01
4.000E+01
3.000E+01
2.000E+01
1.000E+01
0.000E+00
1967 1971 1975 1979 1983 1987 1991 1995 1999 2003 2007 2011 2015 2019 2023 2027 2031 2035 2039
Year
Total landfill gas (av ft^3/min)
Methane (av ft^3/min)
Carbon dioxide (av ft^3/min)
NMOC (av ft^3/min)

Results

Year	Total landfill gas			Methane		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
1967	0	0	0	0	0	0
1968	1.293E+02	1.036E+05	6.958E+00	3.454E+01	5.178E+04	3.479E+00
1969	2.536E+02	2.031E+05	1.364E+01	6.773E+01	1.015E+05	6.822E+00
1970	3.730E+02	2.987E+05	2.007E+01	9.962E+01	1.493E+05	1.003E+01
1971	4.877E+02	3.905E+05	2.624E+01	1.303E+02	1.952E+05	1.312E+01
1972	5.979E+02	4.787E+05	3.217E+01	1.597E+02	2.394E+05	1.608E+01
1973	7.038E+02	5.635E+05	3.786E+01	1.880E+02	2.818E+05	1.893E+01
1974	8.055E+02	6.450E+05	4.334E+01	2.152E+02	3.225E+05	2.167E+01
1975	9.032E+02	7.233E+05	4.860E+01	2.413E+02	3.616E+05	2.430E+01
1976	9.971E+02	7.985E+05	5.365E+01	2.663E+02	3.992E+05	2.682E+01
1977	1.087E+03	8.707E+05	5.850E+01	2.904E+02	4.354E+05	2.925E+01
1978	1.174E+03	9.401E+05	6.317E+01	3.136E+02	4.701E+05	3.158E+01
1979	1.257E+03	1.007E+06	6.765E+01	3.358E+02	5.034E+05	3.382E+01
1980	1.337E+03	1.071E+06	7.195E+01	3.572E+02	5.355E+05	3.598E+01
1981	1.414E+03	1.132E+06	7.609E+01	3.778E+02	5.662E+05	3.805E+01
1982	1.488E+03	1.192E+06	8.006E+01	3.975E+02	5.958E+05	4.003E+01
1983	1.559E+03	1.248E+06	8.388E+01	4.165E+02	6.242E+05	4.194E+01
1984	1.498E+03	1.200E+06	8.059E+01	4.001E+02	5.998E+05	4.030E+01
1985	1.439E+03	1.152E+06	7.743E+01	3.844E+02	5.762E+05	3.872E+01
1986	1.383E+03	1.107E+06	7.440E+01	3.694E+02	5.536E+05	3.720E+01
1987	1.329E+03	1.064E+06	7.148E+01	3.549E+02	5.319E+05	3.574E+01
1988	1.276E+03	1.022E+06	6.868E+01	3.410E+02	5.111E+05	3.434E+01
1989	1.226E+03	9.821E+05	6.599E+01	3.276E+02	4.910E+05	3.299E+01
1990	1.178E+03	9.436E+05	6.340E+01	3.147E+02	4.718E+05	3.170E+01
1991	1.132E+03	9.066E+05	6.091E+01	3.024E+02	4.533E+05	3.046E+01
1992	1.088E+03	8.710E+05	5.852E+01	2.905E+02	4.355E+05	2.926E+01
1993	1.045E+03	8.369E+05	5.623E+01	2.792E+02	4.184E+05	2.811E+01
1994	1.004E+03	8.041E+05	5.402E+01	2.682E+02	4.020E+05	2.701E+01
1995	9.647E+02	7.725E+05	5.191E+01	2.577E+02	3.863E+05	2.595E+01
1996	9.269E+02	7.422E+05	4.987E+01	2.476E+02	3.711E+05	2.494E+01
1997	8.906E+02	7.131E+05	4.792E+01	2.379E+02	3.566E+05	2.396E+01
1998	8.557E+02	6.852E+05	4.604E+01	2.286E+02	3.426E+05	2.302E+01
1999	8.221E+02	6.583E+05	4.423E+01	2.196E+02	3.292E+05	2.212E+01
2000	7.899E+02	6.325E+05	4.250E+01	2.110E+02	3.162E+05	2.125E+01
2001	7.589E+02	6.077E+05	4.083E+01	2.027E+02	3.038E+05	2.042E+01
2002	7.291E+02	5.839E+05	3.923E+01	1.948E+02	2.919E+05	1.961E+01
2003	7.005E+02	5.610E+05	3.769E+01	1.871E+02	2.805E+05	1.885E+01
2004	6.731E+02	5.390E+05	3.621E+01	1.798E+02	2.695E+05	1.811E+01
2005	6.467E+02	5.178E+05	3.479E+01	1.727E+02	2.589E+05	1.740E+01
2006	6.213E+02	4.975E+05	3.343E+01	1.660E+02	2.488E+05	1.671E+01
2007	5.970E+02	4.780E+05	3.212E+01	1.595E+02	2.390E+05	1.606E+01
2008	5.736E+02	4.593E+05	3.086E+01	1.532E+02	2.296E+05	1.543E+01
2009	5.511E+02	4.413E+05	2.965E+01	1.472E+02	2.206E+05	1.482E+01
2010	5.295E+02	4.240E+05	2.849E+01	1.414E+02	2.120E+05	1.424E+01
2011	5.087E+02	4.073E+05	2.737E+01	1.359E+02	2.037E+05	1.368E+01
2012	4.888E+02	3.914E+05	2.630E+01	1.306E+02	1.957E+05	1.315E+01
2013	4.696E+02	3.760E+05	2.527E+01	1.254E+02	1.880E+05	1.263E+01
2014	4.512E+02	3.613E+05	2.427E+01	1.205E+02	1.806E+05	1.214E+01
2015	4.335E+02	3.471E+05	2.332E+01	1.158E+02	1.736E+05	1.166E+01
2016	4.165E+02	3.335E+05	2.241E+01	1.112E+02	1.668E+05	1.120E+01

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
2017	4.002E+02	3.204E+05	2.153E+01	1.069E+02	1.602E+05	1.076E+01
2018	3.845E+02	3.079E+05	2.069E+01	1.027E+02	1.539E+05	1.034E+01
2019	3.694E+02	2.958E+05	1.987E+01	9.867E+01	1.479E+05	9.937E+00
2020	3.549E+02	2.842E+05	1.910E+01	9.480E+01	1.421E+05	9.548E+00
2021	3.410E+02	2.731E+05	1.835E+01	9.108E+01	1.365E+05	9.173E+00
2022	3.276E+02	2.623E+05	1.763E+01	8.751E+01	1.312E+05	8.813E+00
2023	3.148E+02	2.521E+05	1.694E+01	8.408E+01	1.260E+05	8.468E+00
2024	3.024E+02	2.422E+05	1.627E+01	8.078E+01	1.211E+05	8.136E+00
2025	2.906E+02	2.327E+05	1.563E+01	7.762E+01	1.163E+05	7.817E+00
2026	2.792E+02	2.236E+05	1.502E+01	7.457E+01	1.118E+05	7.510E+00
2027	2.682E+02	2.148E+05	1.443E+01	7.165E+01	1.074E+05	7.216E+00
2028	2.577E+02	2.064E+05	1.387E+01	6.884E+01	1.032E+05	6.933E+00
2029	2.476E+02	1.983E+05	1.332E+01	6.614E+01	9.914E+04	6.661E+00
2030	2.379E+02	1.905E+05	1.280E+01	6.355E+01	9.525E+04	6.400E+00
2031	2.286E+02	1.830E+05	1.230E+01	6.105E+01	9.152E+04	6.149E+00
2032	2.196E+02	1.759E+05	1.182E+01	5.866E+01	8.793E+04	5.908E+00
2033	2.110E+02	1.690E+05	1.135E+01	5.636E+01	8.448E+04	5.676E+00
2034	2.027E+02	1.623E+05	1.091E+01	5.415E+01	8.117E+04	5.454E+00
2035	1.948E+02	1.560E+05	1.048E+01	5.203E+01	7.798E+04	5.240E+00
2036	1.871E+02	1.499E+05	1.007E+01	4.999E+01	7.493E+04	5.034E+00
2037	1.798E+02	1.440E+05	9.674E+00	4.803E+01	7.199E+04	4.837E+00
2038	1.728E+02	1.383E+05	9.295E+00	4.614E+01	6.917E+04	4.647E+00
2039	1.660E+02	1.329E+05	8.930E+00	4.433E+01	6.645E+04	4.465E+00
2040	1.595E+02	1.277E+05	8.580E+00	4.260E+01	6.385E+04	4.290E+00
2041	1.532E+02	1.227E+05	8.244E+00	4.093E+01	6.135E+04	4.122E+00
2042	1.472E+02	1.179E+05	7.920E+00	3.932E+01	5.894E+04	3.960E+00
2043	1.414E+02	1.133E+05	7.610E+00	3.778E+01	5.663E+04	3.805E+00
2044	1.359E+02	1.088E+05	7.311E+00	3.630E+01	5.441E+04	3.656E+00
2045	1.306E+02	1.045E+05	7.025E+00	3.488E+01	5.227E+04	3.512E+00
2046	1.254E+02	1.005E+05	6.749E+00	3.351E+01	5.023E+04	3.375E+00
2047	1.205E+02	9.651E+04	6.485E+00	3.219E+01	4.826E+04	3.242E+00
2048	1.158E+02	9.273E+04	6.230E+00	3.093E+01	4.636E+04	3.115E+00
2049	1.113E+02	8.909E+04	5.986E+00	2.972E+01	4.455E+04	2.993E+00
2050	1.069E+02	8.560E+04	5.751E+00	2.855E+01	4.280E+04	2.876E+00
2051	1.027E+02	8.224E+04	5.526E+00	2.743E+01	4.112E+04	2.763E+00
2052	9.868E+01	7.902E+04	5.309E+00	2.636E+01	3.951E+04	2.655E+00
2053	9.481E+01	7.592E+04	5.101E+00	2.532E+01	3.796E+04	2.550E+00
2054	9.109E+01	7.294E+04	4.901E+00	2.433E+01	3.647E+04	2.450E+00
2055	8.752E+01	7.008E+04	4.709E+00	2.338E+01	3.504E+04	2.354E+00
2056	8.409E+01	6.733E+04	4.524E+00	2.246E+01	3.367E+04	2.262E+00
2057	8.079E+01	6.469E+04	4.347E+00	2.158E+01	3.235E+04	2.173E+00
2058	7.762E+01	6.216E+04	4.176E+00	2.073E+01	3.108E+04	2.088E+00
2059	7.458E+01	5.972E+04	4.013E+00	1.992E+01	2.986E+04	2.006E+00
2060	7.166E+01	5.738E+04	3.855E+00	1.914E+01	2.869E+04	1.928E+00
2061	6.885E+01	5.513E+04	3.704E+00	1.839E+01	2.756E+04	1.852E+00
2062	6.615E+01	5.297E+04	3.559E+00	1.767E+01	2.648E+04	1.779E+00
2063	6.355E+01	5.089E+04	3.419E+00	1.698E+01	2.544E+04	1.710E+00
2064	6.106E+01	4.889E+04	3.285E+00	1.631E+01	2.445E+04	1.643E+00
2065	5.867E+01	4.698E+04	3.156E+00	1.567E+01	2.349E+04	1.578E+00
2066	5.637E+01	4.514E+04	3.033E+00	1.506E+01	2.257E+04	1.516E+00
2067	5.416E+01	4.337E+04	2.914E+00	1.447E+01	2.168E+04	1.457E+00

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
2068	5.203E+01	4.167E+04	2.799E+00	1.390E+01	2.083E+04	1.400E+00
2069	4.999E+01	4.003E+04	2.690E+00	1.335E+01	2.002E+04	1.345E+00
2070	4.803E+01	3.846E+04	2.584E+00	1.283E+01	1.923E+04	1.292E+00
2071	4.615E+01	3.695E+04	2.483E+00	1.233E+01	1.848E+04	1.241E+00
2072	4.434E+01	3.550E+04	2.386E+00	1.184E+01	1.775E+04	1.193E+00
2073	4.260E+01	3.411E+04	2.292E+00	1.138E+01	1.706E+04	1.146E+00
2074	4.093E+01	3.277E+04	2.202E+00	1.093E+01	1.639E+04	1.101E+00
2075	3.933E+01	3.149E+04	2.116E+00	1.050E+01	1.574E+04	1.058E+00
2076	3.778E+01	3.026E+04	2.033E+00	1.009E+01	1.513E+04	1.016E+00
2077	3.630E+01	2.907E+04	1.953E+00	9.697E+00	1.453E+04	9.766E-01
2078	3.488E+01	2.793E+04	1.877E+00	9.316E+00	1.396E+04	9.383E-01
2079	3.351E+01	2.683E+04	1.803E+00	8.951E+00	1.342E+04	9.015E-01
2080	3.220E+01	2.578E+04	1.732E+00	8.600E+00	1.289E+04	8.661E-01
2081	3.093E+01	2.477E+04	1.664E+00	8.263E+00	1.239E+04	8.322E-01
2082	2.972E+01	2.380E+04	1.599E+00	7.939E+00	1.190E+04	7.995E-01
2083	2.856E+01	2.287E+04	1.536E+00	7.628E+00	1.143E+04	7.682E-01
2084	2.744E+01	2.197E+04	1.476E+00	7.329E+00	1.098E+04	7.381E-01
2085	2.636E+01	2.111E+04	1.418E+00	7.041E+00	1.055E+04	7.091E-01
2086	2.533E+01	2.028E+04	1.363E+00	6.765E+00	1.014E+04	6.813E-01
2087	2.433E+01	1.949E+04	1.309E+00	6.500E+00	9.743E+03	6.546E-01
2088	2.338E+01	1.872E+04	1.258E+00	6.245E+00	9.361E+03	6.289E-01
2089	2.246E+01	1.799E+04	1.209E+00	6.000E+00	8.994E+03	6.043E-01
2090	2.158E+01	1.728E+04	1.161E+00	5.765E+00	8.641E+03	5.806E-01
2091	2.074E+01	1.660E+04	1.116E+00	5.539E+00	8.302E+03	5.578E-01
2092	1.992E+01	1.595E+04	1.072E+00	5.322E+00	7.977E+03	5.359E-01
2093	1.914E+01	1.533E+04	1.030E+00	5.113E+00	7.664E+03	5.149E-01
2094	1.839E+01	1.473E+04	9.895E-01	4.912E+00	7.363E+03	4.947E-01
2095	1.767E+01	1.415E+04	9.507E-01	4.720E+00	7.075E+03	4.753E-01
2096	1.698E+01	1.359E+04	9.134E-01	4.535E+00	6.797E+03	4.567E-01
2097	1.631E+01	1.306E+04	8.776E-01	4.357E+00	6.531E+03	4.388E-01
2098	1.567E+01	1.255E+04	8.432E-01	4.186E+00	6.275E+03	4.216E-01
2099	1.506E+01	1.206E+04	8.101E-01	4.022E+00	6.029E+03	4.051E-01
2100	1.447E+01	1.158E+04	7.784E-01	3.864E+00	5.792E+03	3.892E-01
2101	1.390E+01	1.113E+04	7.478E-01	3.713E+00	5.565E+03	3.739E-01
2102	1.335E+01	1.069E+04	7.185E-01	3.567E+00	5.347E+03	3.593E-01
2103	1.283E+01	1.027E+04	6.903E-01	3.427E+00	5.137E+03	3.452E-01
2104	1.233E+01	9.872E+03	6.633E-01	3.293E+00	4.936E+03	3.316E-01
2105	1.184E+01	9.485E+03	6.373E-01	3.164E+00	4.742E+03	3.186E-01
2106	1.138E+01	9.113E+03	6.123E-01	3.040E+00	4.556E+03	3.061E-01
2107	1.093E+01	8.755E+03	5.883E-01	2.921E+00	4.378E+03	2.941E-01

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
1967	0	0	0	0	0	0
1968	9.478E+01	5.178E+04	3.479E+00	1.670E+00	4.660E+02	3.131E-02
1969	1.858E+02	1.015E+05	6.822E+00	3.275E+00	9.137E+02	6.139E-02
1970	2.733E+02	1.493E+05	1.003E+01	4.817E+00	1.344E+03	9.030E-02
1971	3.574E+02	1.952E+05	1.312E+01	6.299E+00	1.757E+03	1.181E-01
1972	4.382E+02	2.394E+05	1.608E+01	7.722E+00	2.154E+03	1.448E-01
1973	5.158E+02	2.818E+05	1.893E+01	9.090E+00	2.536E+03	1.704E-01
1974	5.903E+02	3.225E+05	2.167E+01	1.040E+01	2.902E+03	1.950E-01
1975	6.620E+02	3.616E+05	2.430E+01	1.167E+01	3.255E+03	2.187E-01
1976	7.308E+02	3.992E+05	2.682E+01	1.288E+01	3.593E+03	2.414E-01
1977	7.969E+02	4.354E+05	2.925E+01	1.404E+01	3.918E+03	2.633E-01
1978	8.605E+02	4.701E+05	3.158E+01	1.516E+01	4.231E+03	2.843E-01
1979	9.215E+02	5.034E+05	3.382E+01	1.624E+01	4.531E+03	3.044E-01
1980	9.801E+02	5.355E+05	3.598E+01	1.727E+01	4.819E+03	3.238E-01
1981	1.036E+03	5.662E+05	3.805E+01	1.827E+01	5.096E+03	3.424E-01
1982	1.091E+03	5.958E+05	4.003E+01	1.922E+01	5.362E+03	3.603E-01
1983	1.143E+03	6.242E+05	4.194E+01	2.014E+01	5.618E+03	3.775E-01
1984	1.098E+03	5.998E+05	4.030E+01	1.935E+01	5.398E+03	3.627E-01
1985	1.055E+03	5.762E+05	3.872E+01	1.859E+01	5.186E+03	3.485E-01
1986	1.013E+03	5.536E+05	3.720E+01	1.786E+01	4.983E+03	3.348E-01
1987	9.737E+02	5.319E+05	3.574E+01	1.716E+01	4.787E+03	3.217E-01
1988	9.355E+02	5.111E+05	3.434E+01	1.649E+01	4.600E+03	3.091E-01
1989	8.988E+02	4.910E+05	3.299E+01	1.584E+01	4.419E+03	2.969E-01
1990	8.636E+02	4.718E+05	3.170E+01	1.522E+01	4.246E+03	2.853E-01
1991	8.297E+02	4.533E+05	3.046E+01	1.462E+01	4.080E+03	2.741E-01
1992	7.972E+02	4.355E+05	2.926E+01	1.405E+01	3.920E+03	2.634E-01
1993	7.659E+02	4.184E+05	2.811E+01	1.350E+01	3.766E+03	2.530E-01
1994	7.359E+02	4.020E+05	2.701E+01	1.297E+01	3.618E+03	2.431E-01
1995	7.071E+02	3.863E+05	2.595E+01	1.246E+01	3.476E+03	2.336E-01
1996	6.793E+02	3.711E+05	2.494E+01	1.197E+01	3.340E+03	2.244E-01
1997	6.527E+02	3.566E+05	2.396E+01	1.150E+01	3.209E+03	2.156E-01
1998	6.271E+02	3.426E+05	2.302E+01	1.105E+01	3.083E+03	2.072E-01
1999	6.025E+02	3.292E+05	2.212E+01	1.062E+01	2.962E+03	1.990E-01
2000	5.789E+02	3.162E+05	2.125E+01	1.020E+01	2.846E+03	1.912E-01
2001	5.562E+02	3.038E+05	2.042E+01	9.802E+00	2.735E+03	1.837E-01
2002	5.344E+02	2.919E+05	1.961E+01	9.418E+00	2.627E+03	1.765E-01
2003	5.134E+02	2.805E+05	1.885E+01	9.048E+00	2.524E+03	1.696E-01
2004	4.933E+02	2.695E+05	1.811E+01	8.694E+00	2.425E+03	1.630E-01
2005	4.740E+02	2.589E+05	1.740E+01	8.353E+00	2.330E+03	1.566E-01
2006	4.554E+02	2.488E+05	1.671E+01	8.025E+00	2.239E+03	1.504E-01
2007	4.375E+02	2.390E+05	1.606E+01	7.711E+00	2.151E+03	1.445E-01
2008	4.204E+02	2.296E+05	1.543E+01	7.408E+00	2.067E+03	1.389E-01
2009	4.039E+02	2.206E+05	1.482E+01	7.118E+00	1.986E+03	1.334E-01
2010	3.880E+02	2.120E+05	1.424E+01	6.839E+00	1.908E+03	1.282E-01
2011	3.728E+02	2.037E+05	1.368E+01	6.571E+00	1.833E+03	1.232E-01
2012	3.582E+02	1.957E+05	1.315E+01	6.313E+00	1.761E+03	1.183E-01
2013	3.442E+02	1.880E+05	1.263E+01	6.065E+00	1.692E+03	1.137E-01
2014	3.307E+02	1.806E+05	1.214E+01	5.828E+00	1.626E+03	1.092E-01
2015	3.177E+02	1.736E+05	1.166E+01	5.599E+00	1.562E+03	1.050E-01
2016	3.052E+02	1.668E+05	1.120E+01	5.379E+00	1.501E+03	1.008E-01

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
2017	2.933E+02	1.602E+05	1.076E+01	5.169E+00	1.442E+03	9.688E-02
2018	2.818E+02	1.539E+05	1.034E+01	4.966E+00	1.385E+03	9.308E-02
2019	2.707E+02	1.479E+05	9.937E+00	4.771E+00	1.331E+03	8.943E-02
2020	2.601E+02	1.421E+05	9.548E+00	4.584E+00	1.279E+03	8.593E-02
2021	2.499E+02	1.365E+05	9.173E+00	4.404E+00	1.229E+03	8.256E-02
2022	2.401E+02	1.312E+05	8.813E+00	4.232E+00	1.181E+03	7.932E-02
2023	2.307E+02	1.260E+05	8.468E+00	4.066E+00	1.134E+03	7.621E-02
2024	2.217E+02	1.211E+05	8.136E+00	3.906E+00	1.090E+03	7.322E-02
2025	2.130E+02	1.163E+05	7.817E+00	3.753E+00	1.047E+03	7.035E-02
2026	2.046E+02	1.118E+05	7.510E+00	3.606E+00	1.006E+03	6.759E-02
2027	1.966E+02	1.074E+05	7.216E+00	3.465E+00	9.666E+02	6.494E-02
2028	1.889E+02	1.032E+05	6.933E+00	3.329E+00	9.287E+02	6.240E-02
2029	1.815E+02	9.914E+04	6.661E+00	3.198E+00	8.922E+02	5.995E-02
2030	1.744E+02	9.525E+04	6.400E+00	3.073E+00	8.573E+02	5.760E-02
2031	1.675E+02	9.152E+04	6.149E+00	2.952E+00	8.236E+02	5.534E-02
2032	1.610E+02	8.793E+04	5.908E+00	2.837E+00	7.914E+02	5.317E-02
2033	1.546E+02	8.448E+04	5.676E+00	2.725E+00	7.603E+02	5.109E-02
2034	1.486E+02	8.117E+04	5.454E+00	2.618E+00	7.305E+02	4.908E-02
2035	1.428E+02	7.798E+04	5.240E+00	2.516E+00	7.019E+02	4.716E-02
2036	1.372E+02	7.493E+04	5.034E+00	2.417E+00	6.743E+02	4.531E-02
2037	1.318E+02	7.199E+04	4.837E+00	2.322E+00	6.479E+02	4.353E-02
2038	1.266E+02	6.917E+04	4.647E+00	2.231E+00	6.225E+02	4.183E-02
2039	1.216E+02	6.645E+04	4.465E+00	2.144E+00	5.981E+02	4.019E-02
2040	1.169E+02	6.385E+04	4.290E+00	2.060E+00	5.746E+02	3.861E-02
2041	1.123E+02	6.135E+04	4.122E+00	1.979E+00	5.521E+02	3.710E-02
2042	1.079E+02	5.894E+04	3.960E+00	1.901E+00	5.305E+02	3.564E-02
2043	1.037E+02	5.663E+04	3.805E+00	1.827E+00	5.097E+02	3.424E-02
2044	9.959E+01	5.441E+04	3.656E+00	1.755E+00	4.897E+02	3.290E-02
2045	9.569E+01	5.227E+04	3.512E+00	1.686E+00	4.705E+02	3.161E-02
2046	9.194E+01	5.023E+04	3.375E+00	1.620E+00	4.520E+02	3.037E-02
2047	8.833E+01	4.826E+04	3.242E+00	1.557E+00	4.343E+02	2.918E-02
2048	8.487E+01	4.636E+04	3.115E+00	1.496E+00	4.173E+02	2.804E-02
2049	8.154E+01	4.455E+04	2.993E+00	1.437E+00	4.009E+02	2.694E-02
2050	7.834E+01	4.280E+04	2.876E+00	1.381E+00	3.852E+02	2.588E-02
2051	7.527E+01	4.112E+04	2.763E+00	1.327E+00	3.701E+02	2.487E-02
2052	7.232E+01	3.951E+04	2.655E+00	1.275E+00	3.556E+02	2.389E-02
2053	6.948E+01	3.796E+04	2.550E+00	1.225E+00	3.416E+02	2.295E-02
2054	6.676E+01	3.647E+04	2.450E+00	1.177E+00	3.282E+02	2.205E-02
2055	6.414E+01	3.504E+04	2.354E+00	1.130E+00	3.154E+02	2.119E-02
2056	6.163E+01	3.367E+04	2.262E+00	1.086E+00	3.030E+02	2.036E-02
2057	5.921E+01	3.235E+04	2.173E+00	1.044E+00	2.911E+02	1.956E-02
2058	5.689E+01	3.108E+04	2.088E+00	1.003E+00	2.797E+02	1.879E-02
2059	5.466E+01	2.986E+04	2.006E+00	9.633E-01	2.687E+02	1.806E-02
2060	5.252E+01	2.869E+04	1.928E+00	9.255E-01	2.582E+02	1.735E-02
2061	5.046E+01	2.756E+04	1.852E+00	8.892E-01	2.481E+02	1.667E-02
2062	4.848E+01	2.648E+04	1.779E+00	8.544E-01	2.384E+02	1.601E-02
2063	4.658E+01	2.544E+04	1.710E+00	8.209E-01	2.290E+02	1.539E-02
2064	4.475E+01	2.445E+04	1.643E+00	7.887E-01	2.200E+02	1.478E-02
2065	4.300E+01	2.349E+04	1.578E+00	7.577E-01	2.114E+02	1.420E-02
2066	4.131E+01	2.257E+04	1.516E+00	7.280E-01	2.031E+02	1.365E-02
2067	3.969E+01	2.168E+04	1.457E+00	6.995E-01	1.951E+02	1.311E-02

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
2068	3.813E+01	2.083E+04	1.400E+00	6.721E-01	1.875E+02	1.260E-02
2069	3.664E+01	2.002E+04	1.345E+00	6.457E-01	1.801E+02	1.210E-02
2070	3.520E+01	1.923E+04	1.292E+00	6.204E-01	1.731E+02	1.163E-02
2071	3.382E+01	1.848E+04	1.241E+00	5.961E-01	1.663E+02	1.117E-02
2072	3.250E+01	1.775E+04	1.193E+00	5.727E-01	1.598E+02	1.073E-02
2073	3.122E+01	1.706E+04	1.146E+00	5.502E-01	1.535E+02	1.031E-02
2074	3.000E+01	1.639E+04	1.101E+00	5.287E-01	1.475E+02	9.910E-03
2075	2.882E+01	1.574E+04	1.058E+00	5.079E-01	1.417E+02	9.521E-03
2076	2.769E+01	1.513E+04	1.016E+00	4.880E-01	1.361E+02	9.148E-03
2077	2.661E+01	1.453E+04	9.766E-01	4.689E-01	1.308E+02	8.789E-03
2078	2.556E+01	1.396E+04	9.383E-01	4.505E-01	1.257E+02	8.444E-03
2079	2.456E+01	1.342E+04	9.015E-01	4.328E-01	1.208E+02	8.113E-03
2080	2.360E+01	1.289E+04	8.661E-01	4.159E-01	1.160E+02	7.795E-03
2081	2.267E+01	1.239E+04	8.322E-01	3.996E-01	1.115E+02	7.490E-03
2082	2.178E+01	1.190E+04	7.995E-01	3.839E-01	1.071E+02	7.196E-03
2083	2.093E+01	1.143E+04	7.682E-01	3.688E-01	1.029E+02	6.914E-03
2084	2.011E+01	1.098E+04	7.381E-01	3.544E-01	9.886E+01	6.643E-03
2085	1.932E+01	1.055E+04	7.091E-01	3.405E-01	9.499E+01	6.382E-03
2086	1.856E+01	1.014E+04	6.813E-01	3.271E-01	9.126E+01	6.132E-03
2087	1.783E+01	9.743E+03	6.546E-01	3.143E-01	8.768E+01	5.891E-03
2088	1.713E+01	9.361E+03	6.289E-01	3.020E-01	8.425E+01	5.660E-03
2089	1.646E+01	8.994E+03	6.043E-01	2.901E-01	8.094E+01	5.439E-03
2090	1.582E+01	8.641E+03	5.806E-01	2.788E-01	7.777E+01	5.225E-03
2091	1.520E+01	8.302E+03	5.578E-01	2.678E-01	7.472E+01	5.020E-03
2092	1.460E+01	7.977E+03	5.359E-01	2.573E-01	7.179E+01	4.824E-03
2093	1.403E+01	7.664E+03	5.149E-01	2.472E-01	6.897E+01	4.634E-03
2094	1.348E+01	7.363E+03	4.947E-01	2.375E-01	6.627E+01	4.453E-03
2095	1.295E+01	7.075E+03	4.753E-01	2.282E-01	6.367E+01	4.278E-03
2096	1.244E+01	6.797E+03	4.567E-01	2.193E-01	6.118E+01	4.110E-03
2097	1.195E+01	6.531E+03	4.388E-01	2.107E-01	5.878E+01	3.949E-03
2098	1.149E+01	6.275E+03	4.216E-01	2.024E-01	5.647E+01	3.794E-03
2099	1.104E+01	6.029E+03	4.051E-01	1.945E-01	5.426E+01	3.646E-03
2100	1.060E+01	5.792E+03	3.892E-01	1.869E-01	5.213E+01	3.503E-03
2101	1.019E+01	5.565E+03	3.739E-01	1.795E-01	5.009E+01	3.365E-03
2102	9.787E+00	5.347E+03	3.593E-01	1.725E-01	4.812E+01	3.233E-03
2103	9.404E+00	5.137E+03	3.452E-01	1.657E-01	4.624E+01	3.107E-03
2104	9.035E+00	4.936E+03	3.316E-01	1.592E-01	4.442E+01	2.985E-03
2105	8.681E+00	4.742E+03	3.186E-01	1.530E-01	4.268E+01	2.868E-03
2106	8.340E+00	4.556E+03	3.061E-01	1.470E-01	4.101E+01	2.755E-03
2107	8.013E+00	4.378E+03	2.941E-01	1.412E-01	3.940E+01	2.647E-03

APPENDIX D

LABORATORY ANALYTICAL REPORTS

1st QUARTER

LABORATORY ANALYTICAL REPORTS

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Louis A. Berger & Associates, Inc.

Address: 295 Promenade Street
Providence, RI 02908

Attn: Mr. Chris Feeney

Project Number: JI-1747

Laboratory Job Number: L0806071

Date Received: 29-APR-2008

Date Reported: 13-MAY-2008

Delivery Method: Alpha

Site: ROSE HILL LANDFILL

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0806071-01	MW-11-S	SOUTH KINGSTOWN, RI
L0806071-02	MW-11-DO	SOUTH KINGSTOWN, RI
L0806071-03	MW-11-BR	SOUTH KINGSTOWN, RI
L0806071-04	MW-6-DO	SOUTH KINGSTOWN, RI
L0806071-05	RES-11	SOUTH KINGSTOWN, RI
L0806071-06	RES-10	SOUTH KINGSTOWN, RI
L0806071-07	RES-7	SOUTH KINGSTOWN, RI
L0806071-08	MW-4-DO	SOUTH KINGSTOWN, RI
L0806071-09	MW-4-S	SOUTH KINGSTOWN, RI
L0806071-10	DUP-3	SOUTH KINGSTOWN, RI
L0806071-11	TRIP BLANK	SOUTH KINGSTOWN, RI

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Michelle M. Morris
Technical Representative

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0806071

Report Submission

This final report replaces the preliminary report issued May 9, 2008. The report has been amended to include the results for Semivolatile Organics-SIM.

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

The Trip Blank was received in the laboratory but not listed on the Chain of Custody. At the request of the client, the Trip Blank was analyzed.

Total Metals

L0806071-01 through -10 required 2x dilutions for the analysis of all elements by method 6020, due to possibly high concentrations of target and non-target analytes.

The WG320341-2 MS recovery, and the WG320341-6 post spike recovery, for Sodium are invalid because the sample concentration is greater than four times the spike amount added.

Volatile Organics

The WG320836-1/2 LCS/LCSD recoveries, associated with L0806071-01 through -11, are below the individual acceptance criteria for Chloromethane, Bromomethane, and Dichlorodifluoromethane, but within the overall method allowances. The results of the original analyses are reported.

Semivolatile Organics

N,N-Dimethyl Formamide was not detected as a TIC in any sample.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-01
MW-11-S
Sample Matrix: WATER

Date Collected: 29-APR-2008 09:06
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 09:29	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:48	BM
Arsenic, Total	0.0023	mg/l	0.0010	1	6020	0430 12:00	0501 19:48	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:48	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:48	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:48	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:48	BM
Manganese, Total	2.502	mg/l	0.0010	1	6020	0430 12:00	0501 19:48	BM
Sodium, Total	17	mg/l	1.0	1	6010B	0430 12:00	0507 09:29	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:48	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:48	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0430 12:00	0501 19:48	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 17:29	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	0.87	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	3.3	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	2.4	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-01
MW-11-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 17:29	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	16	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	0.75	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	4.6	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	86.0	%	70-130
Toluene-d8	99.0	%	70-130
4-Bromofluorobenzene	100	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-01
MW-11-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 17:29	PD
Dibromofluoromethane	90.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 20:15	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-01
MW-11-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 20:15	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	52.0	%	21-120					
Phenol-d6	37.0	%	10-120					
Nitrobenzene-d5	80.0	%	23-120					
2-Fluorobiphenyl	69.0	%	43-120					
2,4,6-Tribromophenol	94.0	%	10-120					
4-Terphenyl-d14	96.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 20:15	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0510 15:21	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.77					
Hexachlorobenzene	ND	ug/l	0.77					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	48.0	%	21-120					
Phenol-d6	34.0	%	10-120					
Nitrobenzene-d5	67.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-01
MW-11-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0510 15:21	RL
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	72.0	%	10-120					
4-Terphenyl-d14	68.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-02
MW-11-DO
Sample Matrix: WATER

Date Collected: 29-APR-2008 10:03
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 09:33	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:53	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:53	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:53	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:53	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:53	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:53	BM
Manganese, Total	2.178	mg/l	0.0010	1	6020	0430 12:00	0501 19:53	BM
Sodium, Total	24	mg/l	1.0	1	6010B	0430 12:00	0507 09:33	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:53	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 19:53	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0430 12:00	0501 19:53	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 18:06	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	2.1	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	1.9	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-02
MW-11-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 18:06	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	12	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	4.0	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	88.0	%	70-130
Toluene-d8	99.0	%	70-130
4-Bromofluorobenzene	101	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-02
MW-11-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 18:06	PD
Dibromofluoromethane	94.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 20:37	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.7					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-02
MW-11-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 20:37	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.7					
2,4-Dimethylphenol	ND	ug/l	9.7					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.7					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.7					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.7					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	40.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	63.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	88.0	%	10-120					
4-Terphenyl-d14	89.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 20:37	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0510 16:07	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	38.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	55.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-02
MW-11-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0510 16:07	RL
2-Fluorobiphenyl	44.0	%	43-120					
2,4,6-Tribromophenol	71.0	%	10-120					
4-Terphenyl-d14	63.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-03
MW-11-BR
Sample Matrix: WATER

Date Collected: 29-APR-2008 10:34
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 09:16	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:05	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:05	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:05	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:05	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:05	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:05	BM
Manganese, Total	0.0023	mg/l	0.0010	1	6020	0430 12:00	0501 20:05	BM
Sodium, Total	77	mg/l	1.0	1	6010B	0430 12:00	0507 09:16	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:05	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:05	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0430 12:00	0501 20:05	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 18:42	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-03
MW-11-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 18:42	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	87.0	%	70-130
Toluene-d8	100	%	70-130
4-Bromofluorobenzene	101	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-03
MW-11-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 18:42	PD
Dibromofluoromethane	95.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 20:58	PS
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.8					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-03
MW-11-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 20:58	PS
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.8					
2,4-Dimethylphenol	ND	ug/l	9.8					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.8					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.8					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.8					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	40.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	62.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	77.0	%	10-120					
4-Terphenyl-d14	89.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 20:58	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0510 16:53	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	36.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	58.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-03
MW-11-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0510 16:53	RL
2-Fluorobiphenyl	43.0	%	43-120					
2,4,6-Tribromophenol	58.0	%	10-120					
4-Terphenyl-d14	63.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-04
MW-6-DO
Sample Matrix: WATER

Date Collected: 29-APR-2008 11:29
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 09:36	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:27	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:27	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:27	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:27	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:27	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:27	BM
Manganese, Total	1.469	mg/l	0.0010	1	6020	0430 12:00	0501 20:27	BM
Sodium, Total	17	mg/l	1.0	1	6010B	0430 12:00	0507 09:36	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:27	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:27	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0430 12:00	0501 20:27	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 19:18	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	2.1	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	2.2	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-04
MW-6-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 19:18	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	16	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	0.61	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	4.5	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	88.0	%	70-130
Toluene-d8	98.0	%	70-130
4-Bromofluorobenzene	98.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-04
MW-6-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 19:18	PD
Dibromofluoromethane	94.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 21:20	PS
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.9					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.9					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-04
MW-6-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 21:20	PS
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.9					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.9					
2,4-Dimethylphenol	ND	ug/l	9.9					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.9					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.9					
Phenol	ND	ug/l	6.9					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.9					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	44.0	%	21-120					
Phenol-d6	31.0	%	10-120					
Nitrobenzene-d5	64.0	%	23-120					
2-Fluorobiphenyl	56.0	%	43-120					
2,4,6-Tribromophenol	88.0	%	10-120					
4-Terphenyl-d14	93.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 21:20	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0510 17:38	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.79					
Hexachlorobenzene	ND	ug/l	0.79					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	30.0	%	10-120					
Nitrobenzene-d5	56.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-04
MW-6-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0510 17:38	RL
2-Fluorobiphenyl	43.0	%	43-120					
2,4,6-Tribromophenol	72.0	%	10-120					
4-Terphenyl-d14	67.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-05
RES-11
Sample Matrix: WATER

Date Collected: 29-APR-2008 12:12
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 09:53	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:32	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:32	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:32	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:32	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:32	BM
Lead, Total	0.0107	mg/l	0.0010	1	6020	0430 12:00	0501 20:32	BM
Manganese, Total	0.1170	mg/l	0.0010	1	6020	0430 12:00	0501 20:32	BM
Sodium, Total	5.2	mg/l	1.0	1	6010B	0430 12:00	0507 09:53	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:32	BM
Vanadium, Total	0.0014	mg/l	0.0010	1	6020	0430 12:00	0501 20:32	BM
Zinc, Total	0.0115	mg/l	0.0100	1	6020	0430 12:00	0501 20:32	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 19:54	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-05
RES-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 19:54	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	87.0	%	70-130					
Toluene-d8	100	%	70-130					
4-Bromofluorobenzene	102	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-05
RES-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 19:54	PD
Dibromofluoromethane	91.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 21:42	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.7					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.7					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-05
RES-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 21:42	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.7					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.7					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	46.0	%	21-120					
Phenol-d6	31.0	%	10-120					
Nitrobenzene-d5	70.0	%	23-120					
2-Fluorobiphenyl	60.0	%	43-120					
2,4,6-Tribromophenol	80.0	%	10-120					
4-Terphenyl-d14	91.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 21:42	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0510 18:24	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.76					
Hexachlorobenzene	ND	ug/l	0.76					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	39.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	59.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-05
RES-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0510 18:24	RL
2-Fluorobiphenyl	43.0	%	43-120					
2,4,6-Tribromophenol	56.0	%	10-120					
4-Terphenyl-d14	64.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-06
RES-10
Sample Matrix: WATER

Date Collected: 29-APR-2008 12:58
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 09:56	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:54	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:54	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:54	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:54	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:54	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:54	BM
Manganese, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:54	BM
Sodium, Total	26	mg/l	1.0	1	6010B	0430 12:00	0507 09:56	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:54	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 20:54	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0430 12:00	0501 20:54	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 20:31	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-06
RES-10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 20:31	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	88.0	%	70-130
Toluene-d8	100	%	70-130
4-Bromofluorobenzene	100	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-06
RES-10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 20:31	PD
Dibromofluoromethane	90.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 22:03	PS
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-06
RES-10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 22:03	PS
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	38.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	60.0	%	23-120					
2-Fluorobiphenyl	53.0	%	43-120					
2,4,6-Tribromophenol	70.0	%	10-120					
4-Terphenyl-d14	82.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 22:03	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0512 18:08	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	51.0	%	21-120					
Phenol-d6	38.0	%	10-120					
Nitrobenzene-d5	90.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-06
RES-10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0512 18:08	RL
2-Fluorobiphenyl	63.0	%	43-120					
2,4,6-Tribromophenol	95.0	%	10-120					
4-Terphenyl-d14	94.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-07
RES-7
Sample Matrix: WATER

Date Collected: 29-APR-2008 13:32
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 10:00	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:00	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:00	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:00	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:00	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:00	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:00	BM
Manganese, Total	0.0023	mg/l	0.0010	1	6020	0430 12:00	0501 21:00	BM
Sodium, Total	28	mg/l	1.0	1	6010B	0430 12:00	0507 10:00	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:00	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:00	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0430 12:00	0501 21:00	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 21:08	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-07
RES-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 21:08	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	2.4	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	88.0	%	70-130
Toluene-d8	99.0	%	70-130
4-Bromofluorobenzene	102	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-07
RES-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 21:08	PD
Dibromofluoromethane	94.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 22:25	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.7					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-07
RES-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 22:25	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.7					
2,4-Dimethylphenol	ND	ug/l	9.7					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.7					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.7					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.7					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	22.0	%	10-120					
Nitrobenzene-d5	56.0	%	23-120					
2-Fluorobiphenyl	46.0	%	43-120					
2,4,6-Tribromophenol	67.0	%	10-120					
4-Terphenyl-d14	83.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 22:25	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 11:30	0511 06:15	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	51.0	%	21-120					
Phenol-d6	33.0	%	10-120					
Nitrobenzene-d5	75.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-07
RES-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 11:30	0511 06:15	RL
2-Fluorobiphenyl	59.0	%	43-120					
2,4,6-Tribromophenol	74.0	%	10-120					
4-Terphenyl-d14	78.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-08
MW-4-DO
Sample Matrix: WATER

Date Collected: 29-APR-2008 14:53
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 10:03	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:06	BM
Arsenic, Total	0.0012	mg/l	0.0010	1	6020	0430 12:00	0501 21:06	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:06	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:06	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:06	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:06	BM
Manganese, Total	1.715	mg/l	0.0010	1	6020	0430 12:00	0501 21:06	BM
Sodium, Total	12	mg/l	1.0	1	6010B	0430 12:00	0507 10:03	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:06	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:06	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0430 12:00	0501 21:06	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 21:45	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	0.96	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	1.2	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-08
MW-4-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 21:45	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	9.9	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	89.0	%	70-130
Toluene-d8	101	%	70-130
4-Bromofluorobenzene	99.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-08
MW-4-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 21:45	PD
Dibromofluoromethane	97.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 22:47	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.7					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-08
MW-4-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 22:47	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.7					
2,4-Dimethylphenol	ND	ug/l	9.7					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.7					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.7					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.7					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	44.0	%	21-120					
Phenol-d6	30.0	%	10-120					
Nitrobenzene-d5	65.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	81.0	%	10-120					
4-Terphenyl-d14	88.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 22:47	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0510 20:39	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	39.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	57.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-08
MW-4-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0510 20:39	RL
2-Fluorobiphenyl	43.0	%	43-120					
2,4,6-Tribromophenol	63.0	%	10-120					
4-Terphenyl-d14	57.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-09
MW-4-S
Sample Matrix: WATER

Date Collected: 29-APR-2008 14:53
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 10:06	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:11	BM
Arsenic, Total	0.0013	mg/l	0.0010	1	6020	0430 12:00	0501 21:11	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:11	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:11	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:11	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:11	BM
Manganese, Total	1.649	mg/l	0.0010	1	6020	0430 12:00	0501 21:11	BM
Sodium, Total	12	mg/l	1.0	1	6010B	0430 12:00	0507 10:06	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:11	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:11	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0430 12:00	0501 21:11	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 22:22	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	0.94	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	1.2	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-09
MW-4-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 22:22	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	10	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	89.0	%	70-130
Toluene-d8	100	%	70-130
4-Bromofluorobenzene	99.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-09
MW-4-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 22:22	PD
Dibromofluoromethane	94.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 23:09	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.7					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-09
MW-4-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 23:09	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.7					
2,4-Dimethylphenol	ND	ug/l	9.7					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.7					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.7					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.7					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	66.0	%	23-120					
2-Fluorobiphenyl	60.0	%	43-120					
2,4,6-Tribromophenol	73.0	%	10-120					
4-Terphenyl-d14	85.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 23:09	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0510 21:24	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	36.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	60.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-09
MW-4-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0510 21:24	RL
2-Fluorobiphenyl	44.0	%	43-120					
2,4,6-Tribromophenol	53.0	%	10-120					
4-Terphenyl-d14	54.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-10
DUP-3
Sample Matrix: WATER

Date Collected: 29-APR-2008 15:00
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 10:09	AI
Antimony, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:17	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:17	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:17	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:17	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:17	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:17	BM
Manganese, Total	4.484	mg/l	0.0010	1	6020	0430 12:00	0501 21:17	BM
Sodium, Total	7.7	mg/l	1.0	1	6010B	0430 12:00	0507 10:09	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:17	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0430 12:00	0501 21:17	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0430 12:00	0501 21:17	BM
Volatile Organics by GC/MS 8260				1	8260B		0506 22:59	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-10
DUP-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 22:59	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	1.4	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	90.0	%	70-130
Toluene-d8	99.0	%	70-130
4-Bromofluorobenzene	102	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-10
DUP-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 22:59	PD
Dibromofluoromethane	96.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 23:31	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.7					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-10
DUP-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 23:31	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.7					
2,4-Dimethylphenol	ND	ug/l	9.7					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.7					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.7					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.7					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	47.0	%	21-120					
Phenol-d6	34.0	%	10-120					
Nitrobenzene-d5	69.0	%	23-120					
2-Fluorobiphenyl	60.0	%	43-120					
2,4,6-Tribromophenol	87.0	%	10-120					
4-Terphenyl-d14	91.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 23:31	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0510 22:08	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.77					
Hexachlorobenzene	ND	ug/l	0.77					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	45.0	%	21-120					
Phenol-d6	32.0	%	10-120					
Nitrobenzene-d5	62.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-10
DUP-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0510 22:08	RL
2-Fluorobiphenyl	46.0	%	43-120					
2,4,6-Tribromophenol	68.0	%	10-120					
4-Terphenyl-d14	63.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806071-11
TRIP BLANK
Sample Matrix: WATER

Date Collected: 27-APR-2008 14:00
Date Received : 29-APR-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1	8260B		0506 23:36	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806071-11
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 23:36	PD
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	93.0	%	70-130
Toluene-d8	99.0	%	70-130
4-Bromofluorobenzene	102	%	70-130
Dibromofluoromethane	94.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0806071

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 01-10 (L0806071-03, WG320341-1)					
Aluminum, Total	ND	ND	mg/l	NC	20
Sodium, Total	77	74	mg/l	4	20
Total Metals for sample(s) 01-10 (L0806071-03, WG320020-1)					
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Manganese, Total	0.0023	0.0022	mg/l	6	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0806071

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 01-10 (WG320341-4)		
Aluminum, Total	95	80-120
Sodium, Total	89	80-120
Total Metals LCS for sample(s) 01-10 (WG320020-4)		
Antimony, Total	99	80-120
Arsenic, Total	103	80-120
Beryllium, Total	102	80-120
Cadmium, Total	112	80-120
Chromium, Total	104	80-120
Lead, Total	104	80-120
Manganese, Total	104	80-120
Thallium, Total	100	80-120
Vanadium, Total	104	80-120
Zinc, Total	107	80-120
Total Metals SPIKE for sample(s) 01-10 (L0806071-03, WG320341-2)		
Aluminum, Total	95	75-125
Sodium, Total	40	75-125
Total Metals SPIKE for sample(s) 01-10 (L0806071-03, WG320020-2)		
Antimony, Total	95	80-120
Arsenic, Total	101	80-120
Beryllium, Total	96	80-120
Cadmium, Total	109	80-120
Chromium, Total	100	80-120
Lead, Total	100	80-120
Manganese, Total	101	80-120
Thallium, Total	96	80-120
Vanadium, Total	100	80-120
Zinc, Total	105	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0806071

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-11 (WG320836-1, WG320836-2)					
Methylene chloride	92	97	5	20	70-130
1,1-Dichloroethane	88	93	6	20	70-130
Chloroform	83	87	5	20	70-130
Carbon tetrachloride	77	82	6	20	70-130
1,2-Dichloropropane	95	99	4	20	70-130
Dibromochloromethane	88	93	6	20	70-130
1,1,2-Trichloroethane	96	100	4	20	70-130
Tetrachloroethene	92	98	6	20	70-130
Chlorobenzene	100	105	5	20	75-130
Trichlorofluoromethane	80	84	5	20	70-130
1,2-Dichloroethane	80	86	7	20	70-130
1,1,1-Trichloroethane	79	84	6	20	70-130
Bromodichloromethane	86	91	6	20	70-130
trans-1,3-Dichloropropene	96	101	5	20	70-130
cis-1,3-Dichloropropene	95	98	3	20	70-130
1,1-Dichloropropene	85	91	7	20	70-130
Bromoform	92	94	2	20	70-130
1,1,2,2-Tetrachloroethane	96	98	2	20	70-130
Benzene	92	97	5	20	76-127
Toluene	97	101	4	20	76-125
Ethylbenzene	98	103	5	20	70-130
Chloromethane	54	59	9	20	70-130
Bromomethane	69	61	12	20	70-130
Vinyl chloride	89	92	3	20	70-130
Chloroethane	90	92	2	20	70-130
1,1-Dichloroethene	88	93	6	20	61-145
trans-1,2-Dichloroethene	89	95	7	20	70-130
Trichloroethene	88	92	4	20	71-120
1,2-Dichlorobenzene	104	109	5	20	70-130
1,3-Dichlorobenzene	105	109	4	20	70-130
1,4-Dichlorobenzene	107	112	5	20	70-130
Methyl tert butyl ether	81	88	8	20	70-130
p/m-Xylene	101	107	6	20	70-130
o-Xylene	99	106	7	20	70-130
cis-1,2-Dichloroethene	95	100	5	20	70-130
Dibromomethane	90	95	5	20	70-130
1,2,3-Trichloropropane	101	103	2	20	70-130
Styrene	101	108	7	20	70-130
Dichlorodifluoromethane	59	65	10	20	70-130
Acetone	77	92	18	20	70-130
Carbon disulfide	77	93	19	20	70-130
2-Butanone	86	99	14	20	70-130
4-Methyl-2-pentanone	93	103	10	20	70-130
2-Hexanone	83	98	17	20	70-130
Bromochloromethane	99	103	4	20	70-130
Tetrahydrofuran	76	87	13	20	70-130
2,2-Dichloropropane	89	94	5	20	70-130
1,2-Dibromoethane	94	97	3	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0806071

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-11 (WG320836-1, WG320836-2)					
1,3-Dichloropropane	93	96	3	20	70-130
1,1,1,2-Tetrachloroethane	95	99	4	20	70-130
Bromobenzene	105	109	4	20	70-130
n-Butylbenzene	87	96	10	20	70-130
sec-Butylbenzene	100	106	6	20	70-130
tert-Butylbenzene	101	107	6	20	70-130
o-Chlorotoluene	98	103	5	20	70-130
p-Chlorotoluene	103	107	4	20	70-130
1,2-Dibromo-3-chloropropane	85	87	2	20	70-130
Hexachlorobutadiene	91	102	11	20	70-130
Isopropylbenzene	122	127	4	20	70-130
p-Isopropyltoluene	98	107	9	20	70-130
Naphthalene	94	98	4	20	70-130
n-Propylbenzene	102	106	4	20	70-130
1,2,3-Trichlorobenzene	93	99	6	20	70-130
1,2,4-Trichlorobenzene	93	101	8	20	70-130
1,3,5-Trimethylbenzene	100	107	7	20	70-130
1,2,4-Trimethylbenzene	95	100	5	20	70-130
Ethyl ether	82	94	14	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	84	85	1		70-130
Toluene-d8	101	100	1		70-130
4-Bromofluorobenzene	96	95	1		70-130
Dibromofluoromethane	94	95	1		70-130
Semivolatile Organics by EPA 8270C for sample(s) 01-10 (WG320393-2, WG320393-3)					
Acenaphthene	79	78	1	30	46-118
1,2,4-Trichlorobenzene	59	55	7	30	39-98
1,4-Dichlorobenzene	57	56	2	30	36-97
2,4-Dinitrotoluene	91	94	3	30	24-96
n-Nitrosodi-n-propylamine	81	76	6	30	41-116
Pyrene	89	91	2	30	26-127
P-Chloro-M-Cresol	76	75	1	30	23-97
2-Chlorophenol	72	69	4	30	27-123
4-Nitrophenol	47	50	6	30	10-80
Pentachlorophenol	88	90	2	30	9-103
Phenol	32	31	3	30	12-110
Surrogate(s)					
2-Fluorophenol	47	48	2		21-120
Phenol-d6	32	33	3		10-120
Nitrobenzene-d5	76	76	0		23-120
2-Fluorobiphenyl	72	70	3		43-120
2,4,6-Tribromophenol	85	90	6		10-120
4-Terphenyl-d14	92	96	4		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0806071

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Semivolatile Organics by EPA 8270C-SIM for sample(s) 01-06,08-10 (WG320394-2, WG320394-3)					
Pentachlorophenol	42	55	27		30-130
Surrogate(s)					
2-Fluorophenol	45	48	6		21-120
Phenol-d6	32	35	9		10-120
Nitrobenzene-d5	66	67	2		23-120
2-Fluorobiphenyl	49	50	2		43-120
2,4,6-Tribromophenol	69	74	7		10-120
4-Terphenyl-d14	64	71	10		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 07 (WG321484-2, WG321484-3)					
Pentachlorophenol	47	56	17		30-130
Surrogate(s)					
2-Fluorophenol	50	54	8		21-120
Phenol-d6	33	36	9		10-120
Nitrobenzene-d5	72	78	8		23-120
2-Fluorobiphenyl	55	60	9		43-120
2,4,6-Tribromophenol	66	73	10		10-120
4-Terphenyl-d14	69	71	3		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806071

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-10 (WG320341-3)								
Total Metals								
Aluminum, Total	ND	mg/l	0.05	1	6010B	0430 12:00	0507 09:06	AI
Sodium, Total	ND	mg/l	1.0	1	6010B	0430 12:00	0507 09:06	AI
Blank Analysis for sample(s) 01-10 (WG320020-3)								
Total Metals								
Antimony, Total	ND	mg/l	0.0005	1	6020	0430 12:00	0501 19:21	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0430 12:00	0501 19:21	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0430 12:00	0501 19:21	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0430 12:00	0501 19:21	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0430 12:00	0501 19:21	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0430 12:00	0501 19:21	BM
Manganese, Total	ND	mg/l	0.0005	1	6020	0430 12:00	0501 19:21	BM
Thallium, Total	ND	mg/l	0.0005	1	6020	0430 12:00	0501 19:21	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0430 12:00	0501 19:21	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0430 12:00	0501 19:21	BM
Blank Analysis for sample(s) 01-11 (WG320836-3)								
Volatile Organics by GC/MS 8260				1	8260B		0506 16:53	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806071

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-11 (WG320836-3)							
Volatile Organics by GC/MS 8260 cont'd				1 8260B		0506 16:53	PD
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	87.0	%	70-130				
Toluene-d8	99.0	%	70-130				
4-Bromofluorobenzene	97.0	%	70-130				

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806071

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-11 (WG320836-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0506 16:53	PD
Dibromofluoromethane	93.0	%	70-130					
Blank Analysis for sample(s) 01-10 (WG320393-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 19:09	PS
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806071

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-10 (WG320393-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0502 17:00	0507 19:09	PS
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	50.0	%	21-120					
Phenol-d6	33.0	%	10-120					
Nitrobenzene-d5	80.0	%	23-120					
2-Fluorobiphenyl	71.0	%	43-120					
2,4,6-Tribromophenol	92.0	%	10-120					
4-Terphenyl-d14	101	%	33-120					
Blank Analysis for sample(s) 01-10 (WG320393-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0502 17:00	0507 19:09	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND							
Blank Analysis for sample(s) 01-06,08-10 (WG320394-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0502 17:00	0510 13:02	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806071

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-06,08-10 (WG320394-1)								
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0502 17:00	0510 13:02	RL
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	46.0	%	21-120					
Phenol-d6	31.0	%	10-120					
Nitrobenzene-d5	66.0	%	23-120					
2-Fluorobiphenyl	48.0	%	43-120					
2,4,6-Tribromophenol	70.0	%	10-120					
4-Terphenyl-d14	68.0	%	33-120					
Blank Analysis for sample(s) 07 (WG321484-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 11:30	0511 04:00	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	46.0	%	21-120					
Phenol-d6	31.0	%	10-120					
Nitrobenzene-d5	72.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	61.0	%	10-120					
4-Terphenyl-d14	74.0	%	33-120					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3238

Date Rec'd in Lab: 4/29/08

ALPHA Job #: L0806071

Client Information

Client: The Louis Berger Group Inc.
Address: 295 Promenade St
Providence, RI 02908
Phone: (401) 521-5980
Fax: (401) 331-8956
Email: dgeneye@louisbergercom
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S Kingstown, RI
Project #: J1-1747
Project Manager: Chris Feeney
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/8/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
USEPA CERCLA	

MA MCP PFESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: 8260-VOCs, 8270-SVOCs, 6010-Metals

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260-VOCs	8270-SVOCs	6010-Metals	Sample Specific Comments	TOTAL # BOTTLES
06071.1	MW-11-S	4-29-08	9:06	water	SH	✓	✓	✓		5
2	MW-11-DO	4-29-08	10:03	water	SH	✓	✓	✓		5
3	MW-11-BR	4-29-08	10:34	water	SH	✓	✓	✓		5
4	MW-6-DO	4-29-08	11:29	water	SH	✓	✓	✓		5
5	RES-11	4-29-08	12:12	water	SH	✓	✓	✓		5
6	RES-10	4-29-08	12:58	water	SH	✓	✓	✓		5
7	RES-7	4-29-08	13:32	water	SH	✓	✓	✓		5
8	MW-4-DO	4-29-08	14:53	water	SH	✓	✓	✓		5
9	MW-4-S	4-29-08	14:53	water	SH	✓	✓	✓		5
10	DUP-3	4-29-08	15:00	water	SH	✓	✓	✓		5
				Container Type		V	A	P		
				Preservative		B	A	C		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	4-29-08	Don Bowles	4-29-08 1525
Don Bowles	4-29-08	[illegible]	4/29/08 1710

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Louis A. Berger & Associates, Inc.

Address: 295 Promenade Street
Providence, RI 02908

Attn: Mr. Chris Feeney

Project Number: JI-1747

Laboratory Job Number: L0806256

Date Received: 01-MAY-2008

Date Reported: 14-MAY-2008

Delivery Method: Alpha

Site: ROSE HILL LANDFILL

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0806256-01	MW-12-S	SOUTH KINGSTOWN, RI
L0806256-02	MW-12-DO	SOUTH KINGSTOWN, RI
L0806256-03	MW-3-S	SOUTH KINGSTOWN, RI
L0806256-04	MW-3-BR	SOUTH KINGSTOWN, RI
L0806256-05	MW-5-S	SOUTH KINGSTOWN, RI
L0806256-06	MW-13-S	SOUTH KINGSTOWN, RI
L0806256-07	DUP 1	SOUTH KINGSTOWN, RI
L0806256-08	TRIP BLANK	SOUTH KINGSTOWN, RI

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Christopher J. Wolfeld

Technical Director

05140811:02

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0806256

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Metals

L0806256-01 through -07 have elevated detection limits for all elements by method 6020, due to the 2x dilutions required by the high concentrations of target and non target analytes in the samples.

L0806256-01 has an elevated detection limit for Manganese due to the 50x dilution required by the elevated concentration of this element in the sample.

The WG320327-6 serial dilution for Total Manganese (13%) on L0806256-06 was outside the acceptance criteria of 10% between the diluted and non-diluted samples. The post analytical spike (117%) was within the method acceptance criteria; therefore, no further actions were taken.

Volatile Organics

The WG321211-1/2 LCS/LCSD recoveries, associated with L0806256-01 through -08, are below the individual acceptance criteria for Chloromethane and Dichlorodifluoromethane, but within the overall method allowances. The results of the original analyses are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG321211-4/5 MS/MSD recoveries, associated with L0806256-01 through -08, for Chloromethane, Dichlorodifluoromethane, and n-Butylbenzene are below method acceptance criteria. All associated samples were "non-detect" for these compounds.

Semivolatile Organics

N,N-Dimethyl Formamide was not detected as a TIC in any sample.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806256-01
MW-12-S
Sample Matrix: WATER

Date Collected: 01-MAY-2008 09:03
Date Received : 01-MAY-2008
Date Reported : 14-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.155	mg/l	0.020	1	6020	0502 12:00	0505 15:32	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:32	BM
Arsenic, Total	0.0064	mg/l	0.0010	1	6020	0502 12:00	0505 15:32	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:32	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:32	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:32	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:32	BM
Manganese, Total	19.27	mg/l	0.0250	1	6020	0502 12:00	0505 15:27	BM
Sodium, Total	7.9	mg/l	2.0	1	6010B	0502 12:00	0507 11:00	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:32	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:32	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0502 12:00	0505 15:32	BM
Volatile Organics by GC/MS 8260				1	8260B		0508 18:13	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-01
MW-12-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 18:13	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	104	%	70-130
Toluene-d8	102	%	70-130
4-Bromofluorobenzene	110	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-01
MW-12-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 18:13	PD
Dibromofluoromethane	97.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0509 18:20	0510 15:28	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-01
MW-12-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0509 18:20	0510 15:28	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	33.0	%	21-120					
Phenol-d6	21.0	%	10-120					
Nitrobenzene-d5	51.0	%	23-120					
2-Fluorobiphenyl	49.0	%	43-120					
2,4,6-Tribromophenol	56.0	%	10-120					
4-Terphenyl-d14	85.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0509 18:20	0510 15:28	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0509 18:20	0512 18:38	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.77					
Hexachlorobenzene	ND	ug/l	0.77					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	25.0	%	10-120					
Nitrobenzene-d5	60.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-01
MW-12-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0509 18:20	0512 18:38	RL
2-Fluorobiphenyl	47.0	%	43-120					
2,4,6-Tribromophenol	64.0	%	10-120					
4-Terphenyl-d14	80.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806256-02
MW-12-DO
Sample Matrix: WATER

Date Collected: 01-MAY-2008 09:11
Date Received : 01-MAY-2008
Date Reported : 14-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.020	1	6020	0502 12:00	0505 15:44	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:44	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:44	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:44	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:44	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:44	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:44	BM
Manganese, Total	1.555	mg/l	0.0010	1	6020	0502 12:00	0505 15:44	BM
Sodium, Total	6.0	mg/l	2.0	1	6010B	0502 12:00	0507 11:03	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:44	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:44	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0502 12:00	0505 15:44	BM
Volatile Organics by GC/MS 8260				1	8260B		0508 18:49	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-02
MW-12-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 18:49	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	107	%	70-130
Toluene-d8	103	%	70-130
4-Bromofluorobenzene	107	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-02
MW-12-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 18:49	PD
Dibromofluoromethane	102	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 14:16	PS
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.8					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-02
MW-12-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 14:16	PS
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.8					
2,4-Dimethylphenol	ND	ug/l	9.8					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.8					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.8					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.8					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	22.0	%	10-120					
Nitrobenzene-d5	56.0	%	23-120					
2-Fluorobiphenyl	54.0	%	43-120					
2,4,6-Tribromophenol	69.0	%	10-120					
4-Terphenyl-d14	91.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 14:16	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0510 22:26	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	24.0	%	10-120					
Nitrobenzene-d5	61.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-02
MW-12-DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0510 22:26	RL
2-Fluorobiphenyl	48.0	%	43-120					
2,4,6-Tribromophenol	72.0	%	10-120					
4-Terphenyl-d14	76.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806256-03
MW-3-S
Sample Matrix: WATER

Date Collected: 01-MAY-2008 10:38
Date Received : 01-MAY-2008
Date Reported : 14-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.066	mg/l	0.020	1	6020	0502 12:00	0505 15:49	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:49	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:49	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:49	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:49	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:49	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:49	BM
Manganese, Total	0.0226	mg/l	0.0010	1	6020	0502 12:00	0505 15:49	BM
Sodium, Total	8.8	mg/l	2.0	1	6010B	0502 12:00	0507 11:06	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:49	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:49	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0502 12:00	0505 15:49	BM
Volatile Organics by GC/MS 8260				1	8260B		0508 19:25	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-03
MW-3-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 19:25	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	107	%	70-130
Toluene-d8	102	%	70-130
4-Bromofluorobenzene	105	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-03
MW-3-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 19:25	PD
Dibromofluoromethane	102	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 14:38	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.7					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.7					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-03
MW-3-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 14:38	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.7					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.7					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	22.0	%	10-120					
Nitrobenzene-d5	55.0	%	23-120					
2-Fluorobiphenyl	52.0	%	43-120					
2,4,6-Tribromophenol	58.0	%	10-120					
4-Terphenyl-d14	85.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 14:38	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0510 22:57	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.76					
Hexachlorobenzene	ND	ug/l	0.76					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	36.0	%	21-120					
Phenol-d6	25.0	%	10-120					
Nitrobenzene-d5	63.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-03
MW-3-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0510 22:57	RL
2-Fluorobiphenyl	47.0	%	43-120					
2,4,6-Tribromophenol	66.0	%	10-120					
4-Terphenyl-d14	75.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806256-04
MW-3-BR
Sample Matrix: WATER

Date Collected: 01-MAY-2008 11:16
Date Received : 01-MAY-2008
Date Reported : 14-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.020	1	6020	0502 12:00	0505 15:55	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:55	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:55	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:55	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:55	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:55	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:55	BM
Manganese, Total	0.0101	mg/l	0.0010	1	6020	0502 12:00	0505 15:55	BM
Sodium, Total	12	mg/l	2.0	1	6010B	0502 12:00	0507 11:10	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:55	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 15:55	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0502 12:00	0505 15:55	BM
Volatile Organics by GC/MS 8260				1	8260B		0508 20:03	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-04
MW-3-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 20:03	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	106	%	70-130					
Toluene-d8	100	%	70-130					
4-Bromofluorobenzene	106	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-04
MW-3-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 20:03	PD
Dibromofluoromethane	100	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 15:00	PS
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.8					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-04
MW-3-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 15:00	PS
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.8					
2,4-Dimethylphenol	ND	ug/l	9.8					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.8					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.8					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.8					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	23.0	%	10-120					
Nitrobenzene-d5	50.0	%	23-120					
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	58.0	%	10-120					
4-Terphenyl-d14	88.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 15:00	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0510 23:27	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	25.0	%	10-120					
Nitrobenzene-d5	56.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-04
MW-3-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0510 23:27	RL
2-Fluorobiphenyl	44.0	%	43-120					
2,4,6-Tribromophenol	61.0	%	10-120					
4-Terphenyl-d14	72.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806256-05
MW-5-S
Sample Matrix: WATER

Date Collected: 01-MAY-2008 12:28
Date Received : 01-MAY-2008
Date Reported : 14-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.080	mg/l	0.020	1	6020	0502 12:00	0505 16:00	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:00	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:00	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:00	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:00	BM
Chromium, Total	0.0014	mg/l	0.0010	1	6020	0502 12:00	0505 16:00	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:00	BM
Manganese, Total	0.0021	mg/l	0.0010	1	6020	0502 12:00	0505 16:00	BM
Sodium, Total	10	mg/l	2.0	1	6010B	0502 12:00	0507 11:13	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:00	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:00	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0502 12:00	0505 16:00	BM
Volatile Organics by GC/MS 8260				1	8260B		0508 20:40	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-05
MW-5-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 20:40	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	111	%	70-130
Toluene-d8	101	%	70-130
4-Bromofluorobenzene	108	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-05
MW-5-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 20:40	PD
Dibromofluoromethane	101	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 15:22	PS
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.9					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.9					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-05
MW-5-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 15:22	PS
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.9					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.9					
2,4-Dimethylphenol	ND	ug/l	9.9					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.9					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.9					
Phenol	ND	ug/l	6.9					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.9					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	45.0	%	21-120					
Phenol-d6	31.0	%	10-120					
Nitrobenzene-d5	66.0	%	23-120					
2-Fluorobiphenyl	63.0	%	43-120					
2,4,6-Tribromophenol	72.0	%	10-120					
4-Terphenyl-d14	91.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 15:22	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0510 23:57	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.79					
Hexachlorobenzene	ND	ug/l	0.79					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	43.0	%	21-120					
Phenol-d6	33.0	%	10-120					
Nitrobenzene-d5	70.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-05
MW-5-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0510 23:57	RL
2-Fluorobiphenyl	54.0	%	43-120					
2,4,6-Tribromophenol	74.0	%	10-120					
4-Terphenyl-d14	75.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806256-06
MW-13-S
Sample Matrix: WATER

Date Collected: 01-MAY-2008 13:46
Date Received : 01-MAY-2008
Date Reported : 14-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 6-Amber,3-Plastic,6-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.502	mg/l	0.020	1	6020	0502 12:00	0505 16:11	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:11	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:11	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:11	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:11	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:11	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:11	BM
Manganese, Total	0.0239	mg/l	0.0010	1	6020	0502 12:00	0505 16:11	BM
Sodium, Total	9.2	mg/l	2.0	1	6010B	0502 12:00	0507 10:24	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:11	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:11	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0502 12:00	0505 16:11	BM
Volatile Organics by GC/MS 8260				1	8260B		0508 21:18	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-06
MW-13-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 21:18	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	109	%	70-130
Toluene-d8	102	%	70-130
4-Bromofluorobenzene	108	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-06
MW-13-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 21:18	PD
Dibromofluoromethane	102	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 15:44	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-06
MW-13-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 15:44	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	37.0	%	21-120					
Phenol-d6	25.0	%	10-120					
Nitrobenzene-d5	57.0	%	23-120					
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	67.0	%	10-120					
4-Terphenyl-d14	87.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 15:44	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0511 00:27	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.77					
Hexachlorobenzene	ND	ug/l	0.77					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	36.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	63.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-06
MW-13-S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0511 00:27	RL
2-Fluorobiphenyl	49.0	%	43-120					
2,4,6-Tribromophenol	68.0	%	10-120					
4-Terphenyl-d14	71.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806256-07
DUP 1
Sample Matrix: WATER

Date Collected: 01-MAY-2008 09:03
Date Received : 01-MAY-2008
Date Reported : 14-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.495	mg/l	0.020	1	6020	0502 12:00	0505 16:55	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:55	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:55	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:55	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:55	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:55	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:55	BM
Manganese, Total	0.0244	mg/l	0.0010	1	6020	0502 12:00	0505 16:55	BM
Sodium, Total	9.2	mg/l	2.0	1	6010B	0502 12:00	0507 10:56	AI
Thallium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:55	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0502 12:00	0505 16:55	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0502 12:00	0505 16:55	BM
Volatile Organics by GC/MS 8260				1	8260B		0508 21:54	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-07
DUP 1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 21:54	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	113	%	70-130
Toluene-d8	103	%	70-130
4-Bromofluorobenzene	105	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-07
DUP 1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 21:54	PD
Dibromofluoromethane	103	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 16:06	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.7					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.7					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-07
DUP 1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 16:06	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.7					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.7					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	36.0	%	21-120					
Phenol-d6	24.0	%	10-120					
Nitrobenzene-d5	59.0	%	23-120					
2-Fluorobiphenyl	59.0	%	43-120					
2,4,6-Tribromophenol	66.0	%	10-120					
4-Terphenyl-d14	87.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 16:06	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0511 00:58	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.76					
Hexachlorobenzene	ND	ug/l	0.76					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	36.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	66.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-07
DUP 1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0511 00:58	RL
2-Fluorobiphenyl	52.0	%	43-120					
2,4,6-Tribromophenol	71.0	%	10-120					
4-Terphenyl-d14	73.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806256-08
TRIP BLANK
Sample Matrix: WATER

Date Collected: 29-APR-2008 11:30
Date Received : 01-MAY-2008
Date Reported : 14-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1	8260B		0508 22:31	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806256-08
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 22:31	PD
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	112	%	70-130					
Toluene-d8	103	%	70-130					
4-Bromofluorobenzene	105	%	70-130					
Dibromofluoromethane	102	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0806256

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 01-07 (L0806256-06, WG320327-1)					
Aluminum, Total	0.502	0.566	mg/l	12	20
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Manganese, Total	0.0239	0.0275	mg/l	14	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 01-07 (L0806256-06, WG320328-5)					
Sodium, Total	9.2	9.3	mg/l	1	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0806256

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 01-07 (WG320327-4)		
Aluminum, Total	88	80-120
Antimony, Total	94	80-120
Arsenic, Total	94	80-120
Beryllium, Total	95	80-120
Cadmium, Total	104	80-120
Chromium, Total	95	80-120
Lead, Total	97	80-120
Manganese, Total	94	80-120
Thallium, Total	92	80-120
Vanadium, Total	98	80-120
Zinc, Total	98	80-120
Total Metals LCS for sample(s) 01-07 (WG320328-4)		
Sodium, Total	90	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0806256

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-08 (WG321211-1, WG321211-2)					
Methylene chloride	100	100	0	20	70-130
1,1-Dichloroethane	98	99	1	20	70-130
Chloroform	96	100	4	20	70-130
Carbon tetrachloride	92	96	4	20	70-130
1,2-Dichloropropane	98	100	2	20	70-130
Dibromochloromethane	94	97	3	20	70-130
1,1,2-Trichloroethane	100	101	1	20	70-130
Tetrachloroethene	96	96	0	20	70-130
Chlorobenzene	104	103	1	20	75-130
Trichlorofluoromethane	100	105	5	20	70-130
1,2-Dichloroethane	99	103	4	20	70-130
1,1,1-Trichloroethane	95	99	4	20	70-130
Bromodichloromethane	98	102	4	20	70-130
trans-1,3-Dichloropropene	105	108	3	20	70-130
cis-1,3-Dichloropropene	99	100	1	20	70-130
1,1-Dichloropropene	94	98	4	20	70-130
Bromoform	91	95	4	20	70-130
1,1,2,2-Tetrachloroethane	95	96	1	20	70-130
Benzene	98	99	1	20	76-127
Toluene	102	102	0	20	76-125
Ethylbenzene	105	107	2	20	70-130
Chloromethane	63	55	14	20	70-130
Bromomethane	88	84	5	20	70-130
Vinyl chloride	104	106	2	20	70-130
Chloroethane	97	96	1	20	70-130
1,1-Dichloroethene	94	94	0	20	61-145
trans-1,2-Dichloroethene	94	98	4	20	70-130
Trichloroethene	95	97	2	20	71-120
1,2-Dichlorobenzene	104	107	3	20	70-130
1,3-Dichlorobenzene	104	106	2	20	70-130
1,4-Dichlorobenzene	106	109	3	20	70-130
Methyl tert butyl ether	84	86	2	20	70-130
p/m-Xylene	106	106	0	20	70-130
o-Xylene	103	104	1	20	70-130
cis-1,2-Dichloroethene	99	101	2	20	70-130
Dibromomethane	96	105	9	20	70-130
1,2,3-Trichloropropane	106	104	2	20	70-130
Styrene	105	106	1	20	70-130
Dichlorodifluoromethane	64	65	2	20	70-130
Acetone	83	89	7	20	70-130
Carbon disulfide	77	83	8	20	70-130
2-Butanone	84	88	5	20	70-130
4-Methyl-2-pentanone	94	94	0	20	70-130
2-Hexanone	94	98	4	20	70-130
Bromochloromethane	101	104	3	20	70-130
Tetrahydrofuran	82	84	2	20	70-130
2,2-Dichloropropane	105	108	3	20	70-130
1,2-Dibromoethane	98	98	0	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0806256

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-08 (WG321211-1, WG321211-2)					
1,3-Dichloropropane	98	99	1	20	70-130
1,1,1,2-Tetrachloroethane	102	103	1	20	70-130
Bromobenzene	102	104	2	20	70-130
n-Butylbenzene	94	96	2	20	70-130
sec-Butylbenzene	103	105	2	20	70-130
tert-Butylbenzene	105	104	1	20	70-130
o-Chlorotoluene	106	107	1	20	70-130
p-Chlorotoluene	108	111	3	20	70-130
1,2-Dibromo-3-chloropropane	92	90	2	20	70-130
Hexachlorobutadiene	96	105	9	20	70-130
Isopropylbenzene	125	125	0	20	70-130
p-Isopropyltoluene	103	104	1	20	70-130
Naphthalene	91	91	0	20	70-130
n-Propylbenzene	105	107	2	20	70-130
1,2,3-Trichlorobenzene	97	97	0	20	70-130
1,2,4-Trichlorobenzene	95	95	0	20	70-130
1,3,5-Trimethylbenzene	105	108	3	20	70-130
1,2,4-Trimethylbenzene	99	99	0	20	70-130
Ethyl ether	86	86	0	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	100	107	7		70-130
Toluene-d8	102	100	2		70-130
4-Bromofluorobenzene	99	99	0		70-130
Dibromofluoromethane	99	103	4		70-130
Semivolatile Organics by EPA 8270C for sample(s) 01 (WG321448-2, WG321448-3)					
Acenaphthene	67	58	14	30	46-118
1,2,4-Trichlorobenzene	53	49	8	30	39-98
1,4-Dichlorobenzene	45	42	7	30	36-97
2,4-Dinitrotoluene	82	71	14	30	24-96
n-Nitrosodi-n-propylamine	54	48	12	30	41-116
Pyrene	82	72	13	30	26-127
P-Chloro-M-Cresol	65	56	15	30	23-97
2-Chlorophenol	54	48	12	30	27-123
4-Nitrophenol	46	42	9	30	10-80
Pentachlorophenol	75	66	13	30	9-103
Phenol	27	25	8	30	12-110
Surrogate(s)					
2-Fluorophenol	41	36	13		21-120
Phenol-d6	29	26	11		10-120
Nitrobenzene-d5	60	52	14		23-120
2-Fluorobiphenyl	63	57	10		43-120
2,4,6-Tribromophenol	82	68	19		10-120
4-Terphenyl-d14	96	85	12		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0806256

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Semivolatile Organics by EPA 8270C for sample(s) 02-07 (WG320725-2, WG320725-3)					
Acenaphthene	69	70	1	30	46-118
1,2,4-Trichlorobenzene	57	60	5	30	39-98
1,4-Dichlorobenzene	48	52	8	30	36-97
2,4-Dinitrotoluene	84	86	2	30	24-96
n-Nitrosodi-n-propylamine	53	60	12	30	41-116
Pyrene	81	82	1	30	26-127
P-Chloro-M-Cresol	64	68	6	30	23-97
2-Chlorophenol	50	55	10	30	27-123
4-Nitrophenol	45	48	6	30	10-80
Pentachlorophenol	84	87	4	30	9-103
Phenol	22	27	20	30	12-110
Surrogate(s)					
2-Fluorophenol	35	40	13		21-120
Phenol-d6	24	28	15		10-120
Nitrobenzene-d5	56	61	9		23-120
2-Fluorobiphenyl	64	65	2		43-120
2,4,6-Tribromophenol	80	82	2		10-120
4-Terphenyl-d14	94	94	0		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 01 (WG321483-2, WG321483-3)					
Pentachlorophenol	34	35	3		30-130
Surrogate(s)					
2-Fluorophenol	44	43	2		21-120
Phenol-d6	30	29	3		10-120
Nitrobenzene-d5	60	60	0		23-120
2-Fluorobiphenyl	46	45	2		43-120
2,4,6-Tribromophenol	63	64	2		10-120
4-Terphenyl-d14	73	69	6		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 02-07 (WG320724-2, WG320724-3)					
Pentachlorophenol	83	82	1		30-130
Surrogate(s)					
2-Fluorophenol	44	42	5		21-120
Phenol-d6	34	33	3		10-120
Nitrobenzene-d5	79	75	5		23-120
2-Fluorobiphenyl	63	58	8		43-120
2,4,6-Tribromophenol	75	72	4		10-120
4-Terphenyl-d14	79	79	0		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0806256

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Total Metals for sample(s) 01-07 (L0806256-06, WG320327-5)					
Aluminum, Total	89	91	2	20	80-120
Antimony, Total	94	97	3	20	80-120
Arsenic, Total	96	96	0	20	80-120
Beryllium, Total	92	89	3	20	80-120
Cadmium, Total	104	106	2	20	80-120
Chromium, Total	94	97	3	20	80-120
Lead, Total	96	98	2	20	80-120
Manganese, Total	93	95	2	20	80-120
Thallium, Total	92	92	0	20	80-120
Vanadium, Total	97	99	2	20	80-120
Zinc, Total	98	99	1	20	80-120
Total Metals for sample(s) 01-07 (L0806256-06, WG320328-2)					
Sodium, Total	98	98	0	20	75-125
Volatile Organics by GC/MS 8260 for sample(s) 01-08 (L0806256-06, WG321211-5)					
Methylene chloride	91	86	6	20	70-130
1,1-Dichloroethane	92	88	4	20	70-130
Chloroform	92	83	10	20	70-130
Carbon tetrachloride	85	81	5	20	70-130
1,2-Dichloropropane	91	86	6	20	70-130
Dibromochloromethane	86	83	4	20	70-130
1,1,2-Trichloroethane	90	90	0	20	70-130
Tetrachloroethene	84	78	7	20	70-130
Chlorobenzene	91	85	7	20	75-130
Trichlorofluoromethane	98	89	10	20	70-130
1,2-Dichloroethane	98	92	6	20	70-130
1,1,1-Trichloroethane	90	83	8	20	70-130
Bromodichloromethane	92	86	7	20	70-130
trans-1,3-Dichloropropene	92	90	2	20	70-130
cis-1,3-Dichloropropene	88	83	6	20	70-130
1,1-Dichloropropene	88	79	11	20	70-130
Bromoform	81	76	6	20	70-130
1,1,2,2-Tetrachloroethane	84	80	5	20	70-130
Benzene	91	84	8	20	76-127
Toluene	92	86	7	20	76-125
Ethylbenzene	94	87	8	20	70-130
Chloromethane	63	60	5	20	70-130
Bromomethane	86	94	9	20	70-130
Vinyl chloride	107	97	10	20	70-130
Chloroethane	96	86	11	20	70-130
1,1-Dichloroethene	87	80	8	20	61-145
trans-1,2-Dichloroethene	88	81	8	20	70-130
Trichloroethene	87	81	7	20	71-120
1,2-Dichlorobenzene	89	83	7	20	70-130
1,3-Dichlorobenzene	88	83	6	20	70-130
1,4-Dichlorobenzene	90	86	5	20	70-130
Methyl tert butyl ether	83	81	2	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0806256

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-08 (L0806256-06, WG321211-5)					
p/m-Xylene	93	87	7	20	70-130
o-Xylene	95	88	8	20	70-130
cis-1,2-Dichloroethene	93	88	6	20	70-130
Dibromomethane	95	85	11	20	70-130
1,2,3-Trichloropropane	92	91	1	20	70-130
Styrene	96	91	5	20	70-130
Dichlorodifluoromethane	63	59	7	20	70-130
Acetone	85	80	6	20	70-130
Carbon disulfide	74	70	6	20	70-130
2-Butanone	92	82	11	20	70-130
4-Methyl-2-pentanone	85	82	4	20	70-130
2-Hexanone	89	87	2	20	70-130
Bromochloromethane	96	88	9	20	70-130
Tetrahydrofuran	82	78	5	20	70-130
2,2-Dichloropropane	83	76	9	20	70-130
1,2-Dibromoethane	88	85	3	20	70-130
1,3-Dichloropropane	91	87	4	20	70-130
1,1,1,2-Tetrachloroethane	90	85	6	20	70-130
Bromobenzene	89	84	6	20	70-130
n-Butylbenzene	64	58	10	20	70-130
sec-Butylbenzene	87	81	7	20	70-130
tert-Butylbenzene	89	82	8	20	70-130
o-Chlorotoluene	90	84	7	20	70-130
p-Chlorotoluene	92	86	7	20	70-130
1,2-Dibromo-3-chloropropane	76	75	1	20	70-130
Hexachlorobutadiene	80	74	8	20	70-130
Isopropylbenzene	106	99	7	20	70-130
p-Isopropyltoluene	86	81	6	20	70-130
Naphthalene	80	82	2	20	70-130
n-Propylbenzene	89	84	6	20	70-130
1,2,3-Trichlorobenzene	83	79	5	20	70-130
1,2,4-Trichlorobenzene	78	75	4	20	70-130
1,3,5-Trimethylbenzene	87	81	7	20	70-130
1,2,4-Trimethylbenzene	83	80	4	20	70-130
Ethyl ether	83	81	2	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	109	105	4		70-130
Toluene-d8	103	101	2		70-130
4-Bromofluorobenzene	99	100	1		70-130
Dibromofluoromethane	104	104	0		70-130
Semivolatile Organics by EPA 8270C for sample(s) 02-07 (L0806256-06, WG320725-5)					
Acenaphthene	70	66	6	30	46-118
1,2,4-Trichlorobenzene	62	62	0	30	39-98
1,4-Dichlorobenzene	53	53	0	30	36-97
2,4-Dinitrotoluene	79	79	0	30	24-96

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0806256

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Semivolatile Organics by EPA 8270C for sample(s) 02-07 (L0806256-06, WG320725-5)					
n-Nitrosodi-n-propylamine	57	53	7	30	41-116
Pyrene	79	79	0	30	26-127
P-Chloro-M-Cresol	68	64	6	30	23-97
2-Chlorophenol	55	53	4	30	27-123
4-Nitrophenol	70	73	4	30	10-80
Pentachlorophenol	81	84	4	30	9-103
Phenol	42	40	5	30	12-110
Surrogate(s)					
2-Fluorophenol	51	48	6		21-120
Phenol-d6	44	41	7		10-120
Nitrobenzene-d5	60	58	3		23-120
2-Fluorobiphenyl	67	65	3		43-120
2,4,6-Tribromophenol	81	78	4		10-120
4-Terphenyl-d14	90	91	1		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 02-07 (L0806256-06, WG320724-5)					
Pentachlorophenol	97	90	7	40	30-130
Surrogate(s)					
2-Fluorophenol	69	60	14		21-120
Phenol-d6	63	56	12		10-120
Nitrobenzene-d5	90	81	11		23-120
2-Fluorobiphenyl	84	76	10		43-120
2,4,6-Tribromophenol	96	89	8		10-120
4-Terphenyl-d14	104	100	4		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806256

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-07 (WG320327-3)								
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0502 12:00	0505 15:00	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0502 12:00	0505 15:00	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0502 12:00	0505 15:00	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0502 12:00	0505 15:00	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0502 12:00	0505 15:00	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0502 12:00	0505 15:00	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0502 12:00	0505 15:00	BM
Manganese, Total	ND	mg/l	0.0005	1	6020	0502 12:00	0505 15:00	BM
Thallium, Total	ND	mg/l	0.0005	1	6020	0502 12:00	0505 15:00	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0502 12:00	0505 15:00	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0502 12:00	0505 15:00	BM
Blank Analysis for sample(s) 01-07 (WG320328-3)								
Total Metals								
Sodium, Total	ND	mg/l	2.0	1	6010B	0502 12:00	0507 10:13	AI
Blank Analysis for sample(s) 01-08 (WG321211-3)								
Volatile Organics by GC/MS 8260				1	8260B		0508 17:37	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806256

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-08 (WG321211-3)							
Volatile Organics by GC/MS 8260 cont'd				1 8260B		0508 17:37	PD
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	101	%	70-130				
Toluene-d8	102	%	70-130				
4-Bromofluorobenzene	105	%	70-130				

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806256

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-08 (WG321211-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0508 17:37	PD
Dibromofluoromethane	101	%	70-130					
Blank Analysis for sample(s) 02-07 (WG320725-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0508 13:52	PS
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806256
Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02-07 (WG320725-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0508 13:52	PS
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	40.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	61.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	81.0	%	10-120					
4-Terphenyl-d14	96.0	%	33-120					
Blank Analysis for sample(s) 02-07 (WG320725-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0508 13:52	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND							
Blank Analysis for sample(s) 01 (WG321448-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0509 18:20	0510 14:21	PS
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806256

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG321448-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0509 18:20	0510 14:21	PS
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806256

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG321448-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0509 18:20	0510 14:21	PS
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	39.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	57.0	%	23-120					
2-Fluorobiphenyl	55.0	%	43-120					
2,4,6-Tribromophenol	68.0	%	10-120					
4-Terphenyl-d14	85.0	%	33-120					
Blank Analysis for sample(s) 01 (WG321448-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0509 18:20	0510 14:21	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND							
Blank Analysis for sample(s) 02-07 (WG320724-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0510 18:25	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806256

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02-07 (WG320724-1)								
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0510 18:25	RL
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	38.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	65.0	%	23-120					
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	84.0	%	10-120					
4-Terphenyl-d14	78.0	%	33-120					
Blank Analysis for sample(s) 01 (WG321483-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0509 18:20	0511 00:59	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	43.0	%	21-120					
Phenol-d6	30.0	%	10-120					
Nitrobenzene-d5	61.0	%	23-120					
2-Fluorobiphenyl	46.0	%	43-120					
2,4,6-Tribromophenol	65.0	%	10-120					
4-Terphenyl-d14	68.0	%	33-120					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/1

ALPHA Job #: L0806256

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: The Louis Berger Group Inc
Address: 295 Promenade St
Providence, RI 02903
Phone: (401) 521-5980
Fax: (401) 331-8956
Email: dagney@louisberger.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S. Kingstown, RI
Project #: J1-1747
Project Manager: Chris Feeney
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/12 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☑ No Are MCP Analytical Methods Required?
☐ Yes ☑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Per QAPP

ANALYSIS: 8260-VOCs, 8270-SVOCs, 6010-metals

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260-VOCs	8270-SVOCs	6010-metals	Sample Specific Comments	TOTAL # BOTTLES
6256.1	MW-12-S	5/1/08	9:03	GW	SH	✓	✓	✓		
2	MW-12-D	5/1/08	9:41	GW	SH	✓	✓	✓		
3	MW-3-S	5/1/08	10:38	GW	SH	✓	✓	✓		
4	MW-3-BR	5/1/08	11:16	GW	SH	✓	✓	✓		
5	MW-5-S	5/1/08	12:28	GW	SH	✓	✓	✓		
6	MW-13S	5/1/08	13:46	GW	SH	✓	✓	✓		
7	Dup 1	5/1/08	13:46	GW	SH	✓	✓	✓		
6	MS1	5/1/08	13:46	GW	SH	✓	✓	✓		
6	MSD1	5/1/08	13:46	GW	SH	✓	✓	✓		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Cortainer Type	V	A	P
Preservative	B	A	C

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Gilbert	5/1/08	Paul Gilbert	5/1/08 15:05
	5/1/08 1645		5/1 1645

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ANALYTICAL REPORT

Lab Number:	L0806311
Client:	Louis A. Berger & Associates, Inc. 295 Promenade Street Providence, RI 02908
ATTN:	Chris Feeney
Project Name:	ROSE HILL LANDFILL
Project Number:	JI-1747
Report Date:	05/15/08

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0806311
Report Date: 05/15/08

Alpha Sample ID	Client ID	Sample Location
L0806311-01	GV-3	SOUTH KINGSTOWN, RI
L0806311-02	GP-11	SOUTH KINGSTOWN, RI
L0806311-03	GP-21	SOUTH KINGSTOWN, RI
L0806311-04	FIELD BLANK	SOUTH KINGSTOWN, RI
L0806311-05	GV-9	SOUTH KINGSTOWN, RI

Project Name: ROSE HILL LANDFILL **Lab Number:** L0806311
Project Number: JI-1747 **Report Date:** 05/15/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

TO-15

L0806311-02 has an elevated detection limit due to the dilution required by the elevated concentrations of target compounds in the sample.

L0806311-03 has an elevated detection limit due to the dilution required by the elevated concentrations of target compounds in the sample.

L0806311-03R required re-analysis on a dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

L0806311-03 has an elevated detection limit due to the dilution required by the elevated concentrations of target compounds in the sample.

L0806311-05 has an elevated detection limit due to the dilution required by the elevated concentrations of

Project Name: ROSE HILL LANDFILL **Lab Number:** L0806311
Project Number: JI-1747 **Report Date:** 05/15/08

Case Narrative (continued)

target compounds in the sample.

WG321553-4R Duplicate required re-analysis on a dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

The WG321553-2 LCS recovery for 1,2-Dichloropropane is outside the 70%-130% acceptance limit. The LCS was within overall method allowances, therefore the analysis proceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen M. O'Brien

Title: Technical Director/Representative Date: 05/15/08

AIR

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-01
Client ID: GV-3
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/12/08 21:19
Analyst: HM

Date Collected: 04/30/08 12:35
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	30.0	23.6	163	129		118.2
1,1,2,2-Tetrachloroethane	ND	23.6	ND	162.		118.2
1,1,2-Trichloroethane	ND	23.6	ND	129.		118.2
1,1-Dichloroethane	37.4	23.6	151	95.6		118.2
1,1-Dichloroethene	ND	23.6	ND	93.6		118.2
1,2,4-Trichlorbenzene	ND	23.6	ND	175.		118.2
1,2,4-Trimethylbenzene	ND	23.6	ND	116		118.2
1,2-Dibromoethane	ND	23.6	ND	181.		118.2
1,2-Dichlorobenzene	ND	23.6	ND	142.		118.2
1,2-Dichloroethane	ND	23.6	ND	95.6		118.2
1,2-Dichloropropane	ND	23.6	ND	109.		118.2
1,3,5-Trimethybenzene	ND	23.6	ND	116		118.2
1,3-Butadiene	ND	23.6	ND	52.2		118.2
1,3-Dichlorobenzene	ND	23.6	ND	142.		118.2
1,4-Dichlorobenzene	ND	23.6	ND	142.		118.2
2-Butanone	ND	23.6	ND	69.7		118.2
Benzene	ND	23.6	ND	75.4		118.2
Benzyl chloride	ND	23.6	ND	122.		118.2
Bromomethane	ND	23.6	ND	91.7		118.2
Carbon disulfide	ND	23.6	ND	73.6		118.2
Carbon tetrachloride	ND	23.6	ND	149.		118.2
Chlorobenzene	ND	23.6	ND	109.		118.2
Chloroethane	251	23.6	661	62.3		118.2
Chloroform	ND	23.6	ND	115		118.2
Chloromethane	ND	23.6	ND	48.8		118.2

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-01
Client ID: GV-3
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 04/30/08 12:35
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	1850	23.6	7330	93.6		118.2
cis-1,3-Dichloropropene	ND	23.6	ND	107.		118.2
Cyclohexane	37.1	23.6	128	81.3		118.2
Dichlorodifluoromethane	ND	23.6	ND	117		118.2
Ethylbenzene	ND	23.6	ND	102		118.2
Freon-113	ND	23.6	ND	181.		118.2
Freon-114	ND	23.6	ND	165		118.2
Hexachlorobutadiene	ND	23.6	ND	252.		118.2
Methylene chloride	ND	23.6	ND	82.0		118.2
Methyl tert butyl ether	ND	23.6	ND	85.2		118.2
p/m-Xylene	ND	47.3	ND	205		118.2
o-Xylene	ND	23.6	ND	102		118.2
n-Hexane	61.9	23.6	218	83.2		118.2
Propylene	ND	23.6	ND	40.6		118.2
Styrene	ND	23.6	ND	101		118.2
Tetrachloroethene	ND	23.6	ND	160.		118.2
Toluene	ND	23.6	ND	89.0		118.2
trans-1,2-Dichloroethene	ND	23.6	ND	93.6		118.2
trans-1,3-Dichloropropene	ND	23.6	ND	107.		118.2
Trichloroethene	69.2	23.6	371	127		118.2
Trichlorofluoromethane	ND	23.6	ND	133		118.2
Vinyl chloride	3740	23.6	9550	60.4		118.2

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-02
Client ID: GP-11
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/12/08 21:58
Analyst: HM

Date Collected: 04/30/08 13:50
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	5.00	ND	27.2		25
1,1,2,2-Tetrachloroethane	ND	5.00	ND	34.3		25
1,1,2-Trichloroethane	ND	5.00	ND	27.2		25
1,1-Dichloroethane	251	5.00	1010	20.2		25
1,1-Dichloroethene	ND	5.00	ND	19.8		25
1,2,4-Trichlorbenzene	ND	5.00	ND	37.1		25
1,2,4-Trimethylbenzene	ND	5.00	ND	24.6		25
1,2-Dibromoethane	ND	5.00	ND	38.4		25
1,2-Dichlorobenzene	ND	5.00	ND	30.0		25
1,2-Dichloroethane	ND	5.00	ND	20.2		25
1,2-Dichloropropane	ND	5.00	ND	23.1		25
1,3,5-Trimethybenzene	ND	5.00	ND	24.6		25
1,3-Butadiene	ND	5.00	ND	11.0		25
1,3-Dichlorobenzene	ND	5.00	ND	30.0		25
1,4-Dichlorobenzene	ND	5.00	ND	30.0		25
2-Butanone	13.5	5.00	39.8	14.7		25
Benzene	83.9	5.00	268	16.0		25
Benzyl chloride	ND	5.00	ND	25.9		25
Bromomethane	ND	5.00	ND	19.4		25
Carbon disulfide	ND	5.00	ND	15.6		25
Carbon tetrachloride	ND	5.00	ND	31.4		25
Chlorobenzene	ND	5.00	ND	23.0		25
Chloroethane	1760	5.00	4640	13.2		25
Chloroform	5.86	5.00	28.6	24.4		25
Chloromethane	ND	5.00	ND	10.3		25

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-02
Client ID: GP-11
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 04/30/08 13:50
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	ND	5.00	ND	19.8		25
cis-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Cyclohexane	222	5.00	765	17.2		25
Dichlorodifluoromethane	1300	5.00	6410	24.7		25
Ethylbenzene	ND	5.00	ND	21.7		25
Freon-113	ND	5.00	ND	38.3		25
Freon-114	676	5.00	4720	34.9		25
Hexachlorobutadiene	ND	5.00	ND	53.3		25
Methylene chloride	12.2	5.00	42.3	17.4		25
Methyl tert butyl ether	ND	5.00	ND	18.0		25
p/m-Xylene	ND	10.0	ND	43.4		25
o-Xylene	ND	5.00	ND	21.7		25
n-Hexane	469	5.00	1650	17.6		25
Propylene	ND	5.00	ND	8.60		25
Styrene	ND	5.00	ND	21.3		25
Tetrachloroethene	ND	5.00	ND	33.9		25
Toluene	22.3	5.00	83.8	18.8		25
trans-1,2-Dichloroethene	6.02	5.00	23.8	19.8		25
trans-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Trichloroethene	ND	5.00	ND	26.8		25
Trichlorofluoromethane	ND	5.00	ND	28.1		25
Vinyl chloride	515	5.00	1320	12.8		25

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-03
Client ID: GP-21
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/12/08 22:32
Analyst: HM

Date Collected: 04/30/08 13:55
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	2.00	ND	10.9		10
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10
1,1-Dichloroethane	ND	2.00	ND	8.09		10
1,1-Dichloroethene	ND	2.00	ND	7.92		10
1,2,4-Trichlorbenzene	ND	2.00	ND	14.8		10
1,2,4-Trimethylbenzene	ND	2.00	ND	9.82		10
1,2-Dibromoethane	ND	2.00	ND	15.4		10
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10
1,2-Dichloroethane	ND	2.00	ND	8.09		10
1,2-Dichloropropane	ND	2.00	ND	9.24		10
1,3,5-Trimethybenzene	ND	2.00	ND	9.82		10
1,3-Butadiene	ND	2.00	ND	4.42		10
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10
2-Butanone	11.9	2.00	35.2	5.89		10
Benzene	2.40	2.00	7.67	6.38		10
Benzyl chloride	ND	2.00	ND	10.3		10
Bromomethane	ND	2.00	ND	7.76		10
Carbon disulfide	2.00	2.00	6.22	6.22		10
Carbon tetrachloride	ND	2.00	ND	12.6		10
Chlorobenzene	ND	2.00	ND	9.20		10
Chloroethane	2.12	2.00	5.60	5.27		10
Chloroform	ND	2.00	ND	9.76		10
Chloromethane	2.32	2.00	4.78	4.13		10

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-03
Client ID: GP-21
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 04/30/08 13:55
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	ND	2.00	ND	7.92		10
cis-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Cyclohexane	17.5	2.00	60.0	6.88		10
Dichlorodifluoromethane	ND	2.00	ND	9.88		10
Ethylbenzene	ND	2.00	ND	8.68		10
Freon-113	ND	2.00	ND	15.3		10
Freon-114	2.52	2.00	17.6	14.0		10
Hexachlorobutadiene	ND	2.00	ND	21.3		10
Methylene chloride	ND	2.00	ND	6.94		10
Methyl tert butyl ether	ND	2.00	ND	7.20		10
p/m-Xylene	ND	4.00	ND	17.4		10
o-Xylene	ND	2.00	ND	8.68		10
n-Hexane	43.8	2.00	154	7.04		10
Propylene	ND	2.00	ND	3.44		10
Styrene	ND	2.00	ND	8.51		10
Tetrachloroethene	ND	2.00	ND	13.6		10
Toluene	2.86	2.00	10.8	7.53		10
trans-1,2-Dichloroethene	ND	2.00	ND	7.92		10
trans-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Trichloroethene	ND	2.00	ND	10.7		10
Trichlorofluoromethane	ND	2.00	ND	11.2		10
Vinyl chloride	2.03	2.00	5.20	5.11		10

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-04
Client ID: FIELD BLANK
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/12/08 23:45
Analyst: HM

Date Collected: 04/30/08 14:02
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorbenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	0.222	0.200	0.654	0.589		1
Benzene	ND	0.200	ND	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.547	0.200	1.13	0.413		1

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-04
Client ID: FIELD BLANK
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 04/30/08 14:02
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dichlorodifluoromethane	0.399	0.200	1.97	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Methylene chloride	0.420	0.200	1.46	0.694		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.201	0.200	1.13	1.12		1
Vinyl chloride	ND	0.200	ND	0.511		1

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-05
Client ID: GV-9
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/13/08 00:20
Analyst: HM

Date Collected: 04/30/08 16:45
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	18.0	2.00	98.4	10.9		10
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10
1,1-Dichloroethane	10.4	2.00	42.2	8.09		10
1,1-Dichloroethene	ND	2.00	ND	7.92		10
1,2,4-Trichlorbenzene	ND	5.00	ND	37.1		10
1,2,4-Trimethylbenzene	ND	2.00	ND	9.82		10
1,2-Dibromoethane	ND	2.00	ND	15.4		10
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10
1,2-Dichloroethane	ND	2.00	ND	8.09		10
1,2-Dichloropropane	ND	2.00	ND	9.24		10
1,3,5-Trimethybenzene	ND	2.00	ND	9.82		10
1,3-Butadiene	ND	2.00	ND	4.42		10
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10
2-Butanone	12.0	2.00	35.5	5.89		10
Benzene	2.91	2.00	9.28	6.38		10
Benzyl chloride	ND	2.00	ND	10.3		10
Bromomethane	ND	2.00	ND	7.76		10
Carbon disulfide	ND	2.00	ND	6.22		10
Carbon tetrachloride	ND	2.00	ND	12.6		10
Chlorobenzene	ND	2.00	ND	9.20		10
Chloroethane	43.3	2.00	114	5.27		10
Chloroform	ND	2.00	ND	9.76		10
Chloromethane	ND	2.00	ND	4.13		10

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0806311
Report Date: 05/15/08

SAMPLE RESULTS

Lab ID: L0806311-05
Client ID: GV-9
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 04/30/08 16:45
Date Received: 05/01/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	277	2.00	1100	7.92		10
cis-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Cyclohexane	14.2	2.00	48.7	6.88		10
Dichlorodifluoromethane	11.4	2.00	56.5	9.88		10
Ethylbenzene	ND	2.00	ND	8.68		10
Freon-113	ND	2.00	ND	15.3		10
Freon-114	3.60	2.00	25.1	14.0		10
Hexachlorobutadiene	ND	2.00	ND	21.3		10
Methylene chloride	ND	2.00	ND	6.94		10
Methyl tert butyl ether	ND	2.00	ND	7.20		10
p/m-Xylene	ND	4.00	ND	17.4		10
o-Xylene	ND	2.00	ND	8.68		10
n-Hexane	24.6	2.00	86.6	7.04		10
Propylene	ND	2.00	ND	3.44		10
Styrene	ND	2.00	ND	8.51		10
Tetrachloroethene	ND	2.00	ND	13.6		10
Toluene	7.92	2.00	29.8	7.53		10
trans-1,2-Dichloroethene	ND	2.00	ND	7.92		10
trans-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Trichloroethene	27.8	2.00	149	10.7		10
Trichlorofluoromethane	4.50	2.00	25.3	11.2		10
Vinyl chloride	126	2.00	321	5.11		10

Project Name: ROSE HILL LANDFILL **Lab Number:** L0806311

Project Number: JI-1747 **Report Date:** 05/15/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/12/08 12:16

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-05 Batch: WG321553-3						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
2-Hexanone	ND	0.200	ND	0.819		1
3-Chloropropene	ND	0.200	ND	0.626		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	0.200	ND	0.475		1
Benzene	ND	0.200	ND	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0806311

Project Number: JI-1747 **Report Date:** 05/15/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/12/08 12:16

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-05 Batch: WG321553-3						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethanol	ND	2.50	ND	4.71		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.200	ND	0.694		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0806311

Project Number: JI-1747 **Report Date:** 05/15/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/12/08 12:16

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-05 Batch: WG321553-3						
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Tetrahydrofuran	ND	0.200	ND	0.589		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl acetate	ND	0.200	ND	0.704		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ppbV		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: ROSE HILL LANDFILL

Project Number: JI-1747

Lab Number: L0806311

Report Date: 05/15/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG321553-2					
1,1,1-Trichloroethane	112	-	70-130	-	
1,1,2,2-Tetrachloroethane	129	-	70-130	-	
1,1,2-Trichloroethane	116	-	70-130	-	
1,1-Dichloroethane	98	-	70-130	-	
1,1-Dichloroethene	94	-	70-130	-	
1,2,4-Trichlorobenzene	104	-	70-130	-	
1,2,4-Trimethylbenzene	128	-	70-130	-	
1,2-Dibromoethane	93	-	70-130	-	
1,2-Dichlorobenzene	112	-	70-130	-	
1,2-Dichloroethane	101	-	70-130	-	
1,2-Dichloropropane	**134**	-	70-130	-	
1,3,5-Trimethylbenzene	120	-	70-130	-	
1,3-Butadiene	98	-	70-130	-	
1,3-Dichlorobenzene	117	-	70-130	-	
1,4-Dichlorobenzene	118	-	70-130	-	
2-Butanone	102	-	70-130	-	
Benzene	117	-	70-130	-	
Benzyl chloride	114	-	70-130	-	
Bromomethane	77	-	70-130	-	
Carbon disulfide	93	-	70-130	-	
Carbon tetrachloride	106	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ROSE HILL LANDFILL

Project Number: JI-1747

Lab Number: L0806311

Report Date: 05/15/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG321553-2					
Chlorobenzene	98	-	70-130	-	
Chloroethane	97	-	70-130	-	
Chloroform	96	-	70-130	-	
Chloromethane	100	-	70-130	-	
cis-1,2-Dichloroethene	100	-	70-130	-	
cis-1,3-Dichloropropene	111	-	70-130	-	
Cyclohexane	124	-	70-130	-	
Dichlorodifluoromethane	86	-	70-130	-	
Ethylbenzene	117	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	85	-	70-130	-	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	72	-	70-130	-	
Hexachlorobutadiene	91	-	70-130	-	
Methylene chloride	93	-	70-130	-	
Methyl tert butyl ether	98	-	70-130	-	
p/m-Xylene	122	-	70-130	-	
o-Xylene	126	-	70-130	-	
n-Hexane	115	-	70-130	-	
Propylene	94	-	70-130	-	
Styrene	116	-	70-130	-	
Tetrachloroethene	86	-	70-130	-	
Toluene	112	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ROSE HILL LANDFILL

Project Number: JI-1747

Lab Number: L0806311

Report Date: 05/15/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG321553-2					
trans-1,2-Dichloroethene	94	-	70-130	-	
trans-1,3-Dichloropropene	106	-	70-130	-	
Trichloroethene	103	-	70-130	-	
Trichlorofluoromethane	83	-	70-130	-	
Vinyl chloride	96	-	70-130	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0806311
Report Date: 05/15/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG321553-4 QC Sample: L0806311-03 Client ID: GP-21					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trichlorbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethybenzene	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
2-Butanone	11.9	14.6	ppbV	20	25
Benzene	2.40	2.65	ppbV	10	25
Benzyl chloride	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0806311
Report Date: 05/15/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG321553-4 QC Sample: L0806311-03 Client ID: GP-21					
Carbon disulfide	2.00	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	2.12	2.10	ppbV	1	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	2.32	2.08	ppbV	11	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	17.5	17.1	ppbV	2	25
Dichlorodifluoromethane	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	2.52	2.30	ppbV	9	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	4.03	ppbV	NC	25
o-Xylene	ND	2.22	ppbV	NC	25
n-Hexane	43.8	45.5	ppbV	4	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0806311
Report Date: 05/15/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG321553-4 QC Sample: L0806311-03 Client ID: GP-21					
Propylene	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Toluene	2.86	3.25	ppbV	13	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl chloride	2.03	2.12	ppbV	4	25

Project Name: ROSE HILL LANDFILL **Lab Number:** L0806311

Project Number: JI-1747 **Report Date:** 05/15/08

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0806311-01	GV-3	215	2.7L Can	L0805498-01	-29.7	-1.0	-	-	-
L0806311-02	GP-11	530	2.7L Can	L0804442-01	-29.9	-0.3	-	-	-
L0806311-03	GP-21	453	2.7L Can	L0804442-01	-29.8	-0.9	-	-	-
L0806311-04	FIELD BLANK	559	2.7L Can	L0804442-01	-29.2	-1.2	-	-	-
L0806311-05	GV-9	463	2.7L Can	L0804442-01	-29.9	-2.1	-	-	-

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0806311
Report Date: 05/15/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0806311-01A	Canister - 2.7 Liter	NA	NA		Y	Absent	TO15-LL
L0806311-02A	Canister - 2.7 Liter	NA	NA		NA	Absent	TO15-LL
L0806311-03A	Canister - 2.7 Liter	NA	NA		NA	Absent	TO15-LL
L0806311-04A	Canister - 2.7 Liter	NA	NA		NA	Absent	TO15-LL
L0806311-05A	Canister - 2.7 Liter	NA	NA		NA	Absent	TO15-LL

Project Name:	ROSE HILL LANDFILL	**Lab Number:**	L0806311
Project Number:	JI-1747	**Report Date:**	05/15/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name: ROSE HILL LANDFILL **Lab Number:** L0806311
Project Number: JI-1747 **Report Date:** 05/15/08

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — **CHAIN OF CUSTODY**

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0806311

Client Information

Client: The Louis Berger Group, Inc.
Address: 295 Promenade St. Providence, RI 02908
Phone: (401) 521-5980
Fax: (401) 331-8956
Email: dganeye louisbergercom

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S. Kingstown, RI
Project #: J1-1747
Project Manager: Chris Feeny
ALPHA Quote #:

Turn-Around Time

☒ Standard (10 DAYS) ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker: (Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
6311.1	GV-3	4/30/08	8:25Am	12:35Pm	-29.7		SV	SH		215			✓						
2	GP-11	4/30/08	9:30Am	13:50 Pm	-29.9		SV	SH		530			✓						
3	GP-21	4/30/08	9:40Am	13:55Pm	-29.8		SV	SH		458			✓						
4	~~Co~~ Field Blank	4/30/08	9:54	14:02	-29.2		AA	SH		559			✓						
5	GV-9	4/30/08	12:40Pm	16:45	-29.9		SV	SH		463	CBGET		✓						

dev 5-1-2008

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Paul Gilbert	5-1-2008 / 6:30	Paul Gilbert	5/1/08 12:35
Paul Gilbert	5/1/08 16:00	Kim Bard	5-1-08 16:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 (rev.1-Feb-08)

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Louis A. Berger & Associates, Inc.

Address: 295 Promenade Street
Providence, RI 02908

Attn: Mr. Chris Feeney

Project Number: J1-1747

Laboratory Job Number: L0806323

Date Received: 02-MAY-2008

Date Reported: 13-MAY-2008

Delivery Method: Alpha

Site: ROSE HILL LANDFILL

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0806323-01	MW-7-D0	S.KINGSTON, RI
L0806323-02	MW-7-BR	S.KINGSTON, RI
L0806323-03	DUP-2	S.KINGSTON, RI
L0806323-04	TRIP BLANK	S.KINGSTON, RI
L0806323-05	FIELD BLANK 1	S.KINGSTON, RI
L0806323-06	FIELD BLANK 2	S.KINGSTON, RI
L0806323-07	SW-12	S.KINGSTON, RI
L0806323-08	SW-6	S.KINGSTON, RI
L0806323-09	SW-9	S.KINGSTON, RI
L0806323-10	DUP-1	S.KINGSTON, RI
L0806323-11	SW-4	S.KINGSTON, RI
L0806323-12	SW-17	S.KINGSTON, RI
L0806323-13	SW-12 (ADD. VOL.)	S.KINGSTON, RI

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Christopher J. Wolfeld

Technical Director

05130814:29

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0806323

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

Sample SW-17 was received without the container for Dissolved Metals analysis. An aliquot was taken from an unpreserved container, filtered, and preserved appropriately.

Nitrate

The WG320390-4 laboratory duplicate RPD for L0806323-07 is above the method acceptance criteria, however, the sample and duplicate results are less than five times the reporting limit, therefore, the RPD is valid.

Total Metals

L0806323-01, -02, -03, and -05 have elevated detection limits for all elements by method 6020, due to the 2x dilutions required by possibly high concentrations of target and non-target analytes. All client requested reporting limits were achieved.

L0806323-07 through -12 have elevated detection limits for all elements by method 6020, due to the 4x dilutions required by possibly high concentrations of target and non-target analytes. All client requested reporting limits were achieved.

The WG320908-6 post-digestion spike recoveries for Aluminum and Zinc are outside the acceptance criteria for the method. The MS/MSD recoveries were within acceptance criteria; therefore, no further action was taken.

The WG320908-3 Method Blank, associated with L0806323-07 through -12, has a concentration above the reporting limit for Chromium. Since all associated samples are non-detect for this element, no further actions are required.

Dissolved Metals

L0806323-07 through -12 have elevated detection limits for all elements by method 6020, due to the 4x dilutions required by possibly high concentrations of target and non-target analytes. All client requested reporting limits were achieved.

The WG320698-7 post-digestion spike recoveries for Aluminum and Zinc are outside the acceptance criteria for the method. The MS/MSD recoveries were within acceptance criteria; therefore, no further action was taken.

Volatile Organics

The WG321413-1/2 LCS/LCSD recoveries, associated with L0806323-01 through -06, are below the individual acceptance criteria for Chloromethane and Dichlorodifluoromethane, but within the overall method allowances. The results of the original analyses are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG321413-5 MS/MSD recoveries for 2,2-Dichloropropane, Chloromethane, Dichlorodifluoromethane, Hexachlorobutadiene, and n-Butylbenzene, as well as the MSD recoveries for Carbon tetrachloride and Trichlorofluoromethane, associated with L0806323-01 through -06, are below the acceptance criteria. The results of the sample utilized for

the MS/MSD are considered to have a potentially low bias for these compounds.

Semivolatile Organics

L0806323-01 has an elevated detection limit due to limited sample volume available for analysis.

N,N-Dimethyl Formamide was not detected as a TIC in any sample.

Semivolatile Organics-SIM

L0806323-01 has an elevated detection limit due to limited sample volume available for analysis.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-01
MW-7-D0
Sample Matrix: WATER

Date Collected: 02-MAY-2008 09:30
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 6-Amber,3-Plastic,6-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.820	mg/l	0.020	1	6020	0507 11:30	0508 18:47	BM
Antimony, Total	0.0014	mg/l	0.0010	1	6020	0507 11:30	0508 18:47	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 18:47	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 18:47	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 18:47	BM
Chromium, Total	0.0029	mg/l	0.0010	1	6020	0507 11:30	0508 18:47	BM
Lead, Total	0.0020	mg/l	0.0010	1	6020	0507 11:30	0508 18:47	BM
Manganese, Total	0.8326	mg/l	0.0010	1	6020	0507 11:30	0508 18:47	BM
Sodium, Total	17	mg/l	2.0	1	6010B	0507 11:30	0513 10:46	MG
Thallium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 18:47	BM
Vanadium, Total	0.0033	mg/l	0.0010	1	6020	0507 11:30	0508 18:47	BM
Zinc, Total	0.1104	mg/l	0.0100	1	6020	0507 11:30	0508 18:47	BM
Volatile Organics by GC/MS 8260				1	8260B		0509 21:52	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	4.3	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	1.1	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-01
MW-7-D0

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0509 21:52	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	81.0	%	70-130
Toluene-d8	99.0	%	70-130
4-Bromofluorobenzene	97.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-01
MW-7-D0

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0509 21:52	PD
Dibromofluoromethane	92.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 16:28	PS
Acenaphthene	ND	ug/l	6.8					
Benzidine	ND	ug/l	68.					
1,2,4-Trichlorobenzene	ND	ug/l	6.8					
Hexachlorobenzene	ND	ug/l	6.8					
Bis(2-chloroethyl)ether	ND	ug/l	6.8					
2-Chloronaphthalene	ND	ug/l	8.2					
1,2-Dichlorobenzene	ND	ug/l	6.8					
1,3-Dichlorobenzene	ND	ug/l	6.8					
1,4-Dichlorobenzene	ND	ug/l	6.8					
3,3'-Dichlorobenzidine	ND	ug/l	68.					
2,4-Dinitrotoluene	ND	ug/l	8.2					
2,6-Dinitrotoluene	ND	ug/l	6.8					
Azobenzene	ND	ug/l	6.8					
Fluoranthene	ND	ug/l	6.8					
4-Chlorophenyl phenyl ether	ND	ug/l	6.8					
4-Bromophenyl phenyl ether	ND	ug/l	6.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	6.8					
Bis(2-chloroethoxy)methane	ND	ug/l	6.8					
Hexachlorobutadiene	ND	ug/l	14.					
Hexachlorocyclopentadiene	ND	ug/l	41.					
Hexachloroethane	ND	ug/l	6.8					
Isophorone	ND	ug/l	6.8					
Naphthalene	ND	ug/l	6.8					
Nitrobenzene	ND	ug/l	6.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	20.					
n-Nitrosodi-n-propylamine	ND	ug/l	6.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	6.8					
Butyl benzyl phthalate	ND	ug/l	6.8					
Di-n-butylphthalate	ND	ug/l	6.8					
Di-n-octylphthalate	ND	ug/l	6.8					
Diethyl phthalate	ND	ug/l	6.8					
Dimethyl phthalate	ND	ug/l	6.8					
Benzo(a)anthracene	ND	ug/l	6.8					
Benzo(a)pyrene	ND	ug/l	6.8					
Benzo(b)fluoranthene	ND	ug/l	6.8					
Benzo(k)fluoranthene	ND	ug/l	6.8					
Chrysene	ND	ug/l	6.8					
Acenaphthylene	ND	ug/l	6.8					
Anthracene	ND	ug/l	6.8					
Benzo(ghi)perylene	ND	ug/l	6.8					
Fluorene	ND	ug/l	6.8					
Phenanthrene	ND	ug/l	6.8					
Dibenzo(a,h)anthracene	ND	ug/l	6.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	9.6					
Pyrene	ND	ug/l	6.8					
Aniline	ND	ug/l	27.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-01
MW-7-D0

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 16:28	PS
4-Chloroaniline	ND	ug/l	6.8					
2-Nitroaniline	ND	ug/l	6.8					
3-Nitroaniline	ND	ug/l	6.8					
4-Nitroaniline	ND	ug/l	9.6					
Dibenzofuran	ND	ug/l	6.8					
2-Methylnaphthalene	ND	ug/l	6.8					
n-Nitrosodimethylamine	ND	ug/l	68.					
2,4,6-Trichlorophenol	ND	ug/l	6.8					
P-Chloro-M-Cresol	ND	ug/l	6.8					
2-Chlorophenol	ND	ug/l	8.2					
2,4-Dichlorophenol	ND	ug/l	14.					
2,4-Dimethylphenol	ND	ug/l	14.					
2-Nitrophenol	ND	ug/l	27.					
4-Nitrophenol	ND	ug/l	14.					
2,4-Dinitrophenol	ND	ug/l	41.					
4,6-Dinitro-o-cresol	ND	ug/l	27.					
Pentachlorophenol	ND	ug/l	14.					
Phenol	ND	ug/l	9.6					
2-Methylphenol	ND	ug/l	8.2					
3-Methylphenol/4-Methylphenol	ND	ug/l	8.2					
2,4,5-Trichlorophenol	ND	ug/l	6.8					
Benzyl Alcohol	ND	ug/l	14.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	33.0	%	21-120					
Phenol-d6	22.0	%	10-120					
Nitrobenzene-d5	57.0	%	23-120					
2-Fluorobiphenyl	54.0	%	43-120					
2,4,6-Tribromophenol	68.0	%	10-120					
4-Terphenyl-d14	84.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 16:28	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0511 01:28	RL
Hexachlorobutadiene	ND	ug/l	0.68					
Benzo(a)anthracene	ND	ug/l	0.27					
Benzo(a)pyrene	ND	ug/l	0.27					
Benzo(b)fluoranthene	ND	ug/l	0.27					
Benzo(k)fluoranthene	ND	ug/l	0.27					
Pentachlorophenol	ND	ug/l	1.1					
Hexachlorobenzene	ND	ug/l	1.1					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	64.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-01
MW-7-D0

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0511 01:28	RL
2-Fluorobiphenyl	49.0	%	43-120					
2,4,6-Tribromophenol	74.0	%	10-120					
4-Terphenyl-d14	71.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-02
MW-7-BR
Sample Matrix: WATER

Date Collected: 02-MAY-2008 09:50
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.172	mg/l	0.020	1	6020	0507 11:30	0508 19:25	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:25	BM
Arsenic, Total	0.0011	mg/l	0.0010	1	6020	0507 11:30	0508 19:25	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:25	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:25	BM
Chromium, Total	0.0023	mg/l	0.0010	1	6020	0507 11:30	0508 19:25	BM
Lead, Total	0.0012	mg/l	0.0010	1	6020	0507 11:30	0508 19:25	BM
Manganese, Total	0.0078	mg/l	0.0010	1	6020	0507 11:30	0508 19:25	BM
Sodium, Total	64	mg/l	2.0	1	6010B	0507 11:30	0513 10:56	MG
Thallium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:25	BM
Vanadium, Total	0.0047	mg/l	0.0010	1	6020	0507 11:30	0508 19:25	BM
Zinc, Total	0.0115	mg/l	0.0100	1	6020	0507 11:30	0508 19:25	BM
Volatile Organics by GC/MS 8260				1	8260B		0509 22:29	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	1.3	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-02
MW-7-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0509 22:29	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	0.54	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	4.1	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	83.0	%	70-130
Toluene-d8	99.0	%	70-130
4-Bromofluorobenzene	99.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-02
MW-7-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0509 22:29	PD
Dibromofluoromethane	92.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 16:50	PS
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.9					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.9					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-02
MW-7-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 16:50	PS
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.9					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.9					
2,4-Dimethylphenol	ND	ug/l	9.9					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.9					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.9					
Phenol	ND	ug/l	6.9					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.9					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	32.0	%	21-120					
Phenol-d6	23.0	%	10-120					
Nitrobenzene-d5	59.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	63.0	%	10-120					
4-Terphenyl-d14	83.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 16:50	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0511 01:58	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.79					
Hexachlorobenzene	ND	ug/l	0.79					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	32.0	%	21-120					
Phenol-d6	24.0	%	10-120					
Nitrobenzene-d5	64.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-02
MW-7-BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0511 01:58	RL
2-Fluorobiphenyl	50.0	%	43-120					
2,4,6-Tribromophenol	65.0	%	10-120					
4-Terphenyl-d14	71.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-03
DUP-2
Sample Matrix: WATER

Date Collected: 02-MAY-2008 09:50
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.142	mg/l	0.020	1	6020	0507 11:30	0508 19:31	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:31	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:31	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:31	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:31	BM
Chromium, Total	0.0020	mg/l	0.0010	1	6020	0507 11:30	0508 19:31	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:31	BM
Manganese, Total	0.0061	mg/l	0.0010	1	6020	0507 11:30	0508 19:31	BM
Sodium, Total	65	mg/l	2.0	1	6010B	0507 11:30	0513 10:59	MG
Thallium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:31	BM
Vanadium, Total	0.0044	mg/l	0.0010	1	6020	0507 11:30	0508 19:31	BM
Zinc, Total	0.0169	mg/l	0.0100	1	6020	0507 11:30	0508 19:31	BM
Volatile Organics by GC/MS 8260				1	8260B		0509 23:06	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	1.3	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-03
DUP-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0509 23:06	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	0.53	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	4.0	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	85.0	%	70-130
Toluene-d8	100	%	70-130
4-Bromofluorobenzene	101	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-03
DUP-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0509 23:06	PD
Dibromofluoromethane	92.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 17:12	PS
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.7					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-03
DUP-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 17:12	PS
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.7					
2,4-Dimethylphenol	ND	ug/l	9.7					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.7					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.7					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.7					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	31.0	%	21-120					
Phenol-d6	23.0	%	10-120					
Nitrobenzene-d5	69.0	%	23-120					
2-Fluorobiphenyl	65.0	%	43-120					
2,4,6-Tribromophenol	65.0	%	10-120					
4-Terphenyl-d14	86.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 17:12	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0511 02:29	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	31.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	75.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-03
DUP-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0511 02:29	RL
2-Fluorobiphenyl	56.0	%	43-120					
2,4,6-Tribromophenol	69.0	%	10-120					
4-Terphenyl-d14	72.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-04
TRIP BLANK
Sample Matrix: WATER

Date Collected: 22-APR-2008 21:00
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1	8260B		0509 23:43	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-04
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0509 23:43	PD
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	85.0	%	70-130
Toluene-d8	100	%	70-130
4-Bromofluorobenzene	100	%	70-130
Dibromofluoromethane	92.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-05
FIELD BLANK 1
Sample Matrix: WATER

Date Collected: 02-MAY-2008 09:30
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.020	1	6020	0507 11:30	0508 19:37	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:37	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:37	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:37	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:37	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:37	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:37	BM
Manganese, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:37	BM
Sodium, Total	ND	mg/l	2.0	1	6010B	0507 11:30	0513 11:23	MG
Thallium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:37	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:37	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0507 11:30	0508 19:37	BM
Volatile Organics by GC/MS 8260				1	8260B		0510 00:20	PD
Methylene chloride	10	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	0.97	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-05
FIELD BLANK 1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0510 00:20	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	86.0	%	70-130
Toluene-d8	100	%	70-130
4-Bromofluorobenzene	102	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-05
FIELD BLANK 1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0510 00:20	PD
Dibromofluoromethane	93.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 17:35	PS
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.9					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.9					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-05
FIELD BLANK 1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 17:35	PS
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.9					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.9					
2,4-Dimethylphenol	ND	ug/l	9.9					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.9					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.9					
Phenol	ND	ug/l	6.9					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.9					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	36.0	%	21-120					
Phenol-d6	23.0	%	10-120					
Nitrobenzene-d5	60.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	66.0	%	10-120					
4-Terphenyl-d14	84.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 17:35	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0511 02:59	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.79					
Hexachlorobenzene	ND	ug/l	0.79					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	35.0	%	21-120					
Phenol-d6	25.0	%	10-120					
Nitrobenzene-d5	65.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-05
FIELD BLANK 1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0511 02:59	RL
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	68.0	%	10-120					
4-Terphenyl-d14	68.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-06
FIELD BLANK 2
Sample Matrix: WATER

Date Collected: 02-MAY-2008 09:30
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.020	1	6020	0507 11:30	0508 19:42	BM
Antimony, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:42	BM
Arsenic, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:42	BM
Beryllium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:42	BM
Cadmium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:42	BM
Chromium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:42	BM
Lead, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:42	BM
Manganese, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:42	BM
Sodium, Total	ND	mg/l	2.0	1	6010B	0507 11:30	0513 11:26	MG
Thallium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:42	BM
Vanadium, Total	ND	mg/l	0.0010	1	6020	0507 11:30	0508 19:42	BM
Zinc, Total	ND	mg/l	0.0100	1	6020	0507 11:30	0508 19:42	BM
Volatile Organics by GC/MS 8260				1	8260B		0510 00:57	PD
Methylene chloride	10	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	0.98	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-06
FIELD BLANK 2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0510 00:57	PD
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	87.0	%	70-130
Toluene-d8	99.0	%	70-130
4-Bromofluorobenzene	101	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-06
FIELD BLANK 2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0510 00:57	PD
Dibromofluoromethane	93.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 17:57	PS
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-06
FIELD BLANK 2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0509 17:57	PS
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	39.0	%	21-120					
Phenol-d6	25.0	%	10-120					
Nitrobenzene-d5	64.0	%	23-120					
2-Fluorobiphenyl	60.0	%	43-120					
2,4,6-Tribromophenol	65.0	%	10-120					
4-Terphenyl-d14	86.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0509 17:57	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0511 03:29	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	38.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	70.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-06
FIELD BLANK 2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0506 13:15	0511 03:29	RL
2-Fluorobiphenyl	63.0	%	43-120					
2,4,6-Tribromophenol	71.0	%	10-120					
4-Terphenyl-d14	72.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-07
SW-12
Sample Matrix: WATER

Date Collected: 02-MAY-2008 11:15
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 16-Plastic,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0506 16:20	0507 19:51	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0508 15:28	JL
Nitrogen, Nitrate	0.30	mg/l	0.10	30	4500NO3-F		0503 00:26	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0509 10:56	AT
Phosphorus, Total	0.01	mg/l	0.01	30	4500P-E		0512 14:45	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	6.7	mg/l	0.50	1	9060		0512 06:24	DW
Hardness	14	mg/l	0.66	30	2340B	0507 11:30	0513 11:35	MG
Total Metals								
Aluminum, Total	0.180	mg/l	0.040	1	6020	0507 11:30	0508 20:10	BM
Arsenic, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:10	BM
Cadmium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:10	BM
Chromium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:10	BM
Copper, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:10	BM
Iron, Total	0.682	mg/l	0.200	1	6020	0507 11:30	0508 20:10	BM
Lead, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:10	BM
Manganese, Total	0.0975	mg/l	0.0020	1	6020	0507 11:30	0508 20:10	BM
Nickel, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:10	BM
Silver, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:10	BM
Zinc, Total	ND	mg/l	0.0200	1	6020	0507 11:30	0508 20:10	BM
Dissolved Metals								
Aluminum, Dissolved	0.141	mg/l	0.040	1	6020	0506 12:00	0507 17:23	BM
Arsenic, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:23	BM
Cadmium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:23	BM
Chromium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:23	BM
Copper, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:23	BM
Iron, Dissolved	0.360	mg/l	0.200	1	6020	0506 12:00	0507 17:23	BM
Lead, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:23	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-07
SW-12

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0818	mg/l	0.0020	1	6020	0506 12:00	0507 17:23	BM
Nickel, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:23	BM
Silver, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:23	BM
Zinc, Dissolved	ND	mg/l	0.0200	1	6020	0506 12:00	0507 17:23	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-08
SW-6
Sample Matrix: WATER

Date Collected: 02-MAY-2008 11:30
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0506 16:20	0507 19:51	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0508 15:55	JL
Nitrogen, Nitrate	0.17	mg/l	0.10	30	4500NO3-F		0503 00:27	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0509 11:26	AT
Phosphorus, Total	0.01	mg/l	0.01	30	4500P-E		0506 16:30	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	4.7	mg/l	0.50	1	9060		0512 06:24	DW
Hardness	12	mg/l	0.66	30	2340B	0507 11:30	0513 11:45	MG
Total Metals								
Aluminum, Total	0.279	mg/l	0.040	1	6020	0507 11:30	0508 20:48	BM
Arsenic, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:48	BM
Cadmium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:48	BM
Chromium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:48	BM
Copper, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:48	BM
Iron, Total	1.17	mg/l	0.200	1	6020	0507 11:30	0508 20:48	BM
Lead, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:48	BM
Manganese, Total	0.1075	mg/l	0.0020	1	6020	0507 11:30	0508 20:48	BM
Nickel, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:48	BM
Silver, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:48	BM
Zinc, Total	ND	mg/l	0.0200	1	6020	0507 11:30	0508 20:48	BM
Dissolved Metals								
Aluminum, Dissolved	0.115	mg/l	0.040	1	6020	0506 12:00	0507 17:51	BM
Arsenic, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:51	BM
Cadmium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:51	BM
Chromium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:51	BM
Copper, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:51	BM
Iron, Dissolved	0.386	mg/l	0.200	1	6020	0506 12:00	0507 17:51	BM
Lead, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:51	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-08
SW-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0829	mg/l	0.0020	1	6020	0506 12:00	0507 17:51	BM
Nickel, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:51	BM
Silver, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 17:51	BM
Zinc, Dissolved	ND	mg/l	0.0200	1	6020	0506 12:00	0507 17:51	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-09
SW-9
Sample Matrix: WATER

Date Collected: 02-MAY-2008 12:04
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0506 16:20	0507 19:52	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0508 16:04	JL
Nitrogen, Nitrate	0.11	mg/l	0.10	30	4500NO3-F		0503 00:27	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0509 11:35	AT
Phosphorus, Total	ND	mg/l	0.01	30	4500P-E		0506 16:30	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	4.6	mg/l	0.50	1	9060		0512 06:24	DW
Hardness	9.7	mg/l	0.66	30	2340B	0507 11:30	0513 11:54	MG
Total Metals								
Aluminum, Total	0.165	mg/l	0.040	1	6020	0507 11:30	0508 20:54	BM
Arsenic, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:54	BM
Cadmium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:54	BM
Chromium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:54	BM
Copper, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:54	BM
Iron, Total	0.200	mg/l	0.200	1	6020	0507 11:30	0508 20:54	BM
Lead, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:54	BM
Manganese, Total	0.0442	mg/l	0.0020	1	6020	0507 11:30	0508 20:54	BM
Nickel, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:54	BM
Silver, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:54	BM
Zinc, Total	ND	mg/l	0.0200	1	6020	0507 11:30	0508 20:54	BM
Dissolved Metals								
Aluminum, Dissolved	0.142	mg/l	0.040	1	6020	0506 12:00	0507 18:16	BM
Arsenic, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:16	BM
Cadmium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:16	BM
Chromium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:16	BM
Copper, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:16	BM
Iron, Dissolved	ND	mg/l	0.200	1	6020	0506 12:00	0507 18:16	BM
Lead, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:16	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-09
SW-9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0257	mg/l	0.0020	1	6020	0506 12:00	0507 18:16	BM
Nickel, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:16	BM
Silver, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:16	BM
Zinc, Dissolved	ND	mg/l	0.0200	1	6020	0506 12:00	0507 18:16	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-10
DUP-1
Sample Matrix: WATER

Date Collected: 02-MAY-2008 12:04
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0506 16:20	0507 19:53	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0508 16:13	JL
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0503 00:28	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0509 11:45	AT
Phosphorus, Total	ND	mg/l	0.01	30	4500P-E		0506 16:30	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	4.7	mg/l	0.50	1	9060		0512 06:24	DW
Hardness	9.3	mg/l	0.66	30	2340B	0507 11:30	0513 11:58	MG
Total Metals								
Aluminum, Total	0.161	mg/l	0.040	1	6020	0507 11:30	0508 20:59	BM
Arsenic, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:59	BM
Cadmium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:59	BM
Chromium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:59	BM
Copper, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:59	BM
Iron, Total	0.216	mg/l	0.200	1	6020	0507 11:30	0508 20:59	BM
Lead, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:59	BM
Manganese, Total	0.0428	mg/l	0.0020	1	6020	0507 11:30	0508 20:59	BM
Nickel, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:59	BM
Silver, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 20:59	BM
Zinc, Total	ND	mg/l	0.0200	1	6020	0507 11:30	0508 20:59	BM
Dissolved Metals								
Aluminum, Dissolved	0.145	mg/l	0.040	1	6020	0506 12:00	0507 18:21	BM
Arsenic, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:21	BM
Cadmium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:21	BM
Chromium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:21	BM
Copper, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:21	BM
Iron, Dissolved	ND	mg/l	0.200	1	6020	0506 12:00	0507 18:21	BM
Lead, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:21	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-10
DUP-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0338	mg/l	0.0020	1	6020	0506 12:00	0507 18:21	BM
Nickel, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:21	BM
Silver, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:21	BM
Zinc, Dissolved	ND	mg/l	0.0200	1	6020	0506 12:00	0507 18:21	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-11
SW-4
Sample Matrix: WATER

Date Collected: 02-MAY-2008 12:20
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0506 16:20	0507 19:56	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0508 16:21	JL
Nitrogen, Nitrate	0.35	mg/l	0.10	30	4500NO3-F		0503 00:29	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0509 11:55	AT
Phosphorus, Total	0.01	mg/l	0.01	30	4500P-E		0506 16:30	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	7.6	mg/l	0.50	1	9060		0512 06:24	DW
Hardness	13	mg/l	0.66	30	2340B	0507 11:30	0513 12:00	MG
Total Metals								
Aluminum, Total	0.191	mg/l	0.040	1	6020	0507 11:30	0508 21:05	BM
Arsenic, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:05	BM
Cadmium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:05	BM
Chromium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:05	BM
Copper, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:05	BM
Iron, Total	0.356	mg/l	0.200	1	6020	0507 11:30	0508 21:05	BM
Lead, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:05	BM
Manganese, Total	0.0797	mg/l	0.0020	1	6020	0507 11:30	0508 21:05	BM
Nickel, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:05	BM
Silver, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:05	BM
Zinc, Total	ND	mg/l	0.0200	1	6020	0507 11:30	0508 21:05	BM
Dissolved Metals								
Aluminum, Dissolved	0.153	mg/l	0.040	1	6020	0506 12:00	0507 18:27	BM
Arsenic, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:27	BM
Cadmium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:27	BM
Chromium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:27	BM
Copper, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:27	BM
Iron, Dissolved	0.240	mg/l	0.200	1	6020	0506 12:00	0507 18:27	BM
Lead, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:27	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-11
SW-4

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0720	mg/l	0.0020	1	6020	0506 12:00	0507 18:27	BM
Nickel, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:27	BM
Silver, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:27	BM
Zinc, Dissolved	ND	mg/l	0.0200	1	6020	0506 12:00	0507 18:27	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-12
SW-17
Sample Matrix: WATER

Date Collected: 02-MAY-2008 12:26
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 7-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0506 16:20	0507 19:57	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0508 16:30	JL
Nitrogen, Nitrate	0.37	mg/l	0.10	30	4500NO3-F		0503 00:30	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0509 12:04	AT
Phosphorus, Total	0.01	mg/l	0.01	30	4500P-E		0506 16:30	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	7.7	mg/l	0.50	1	9060		0512 06:24	DW
Hardness	14	mg/l	0.66	30	2340B	0507 11:30	0513 12:03	MG
Total Metals								
Aluminum, Total	0.185	mg/l	0.040	1	6020	0507 11:30	0508 21:10	BM
Arsenic, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:10	BM
Cadmium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:10	BM
Chromium, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:10	BM
Copper, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:10	BM
Iron, Total	0.414	mg/l	0.200	1	6020	0507 11:30	0508 21:10	BM
Lead, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:10	BM
Manganese, Total	0.0773	mg/l	0.0020	1	6020	0507 11:30	0508 21:10	BM
Nickel, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:10	BM
Silver, Total	ND	mg/l	0.0020	1	6020	0507 11:30	0508 21:10	BM
Zinc, Total	ND	mg/l	0.0200	1	6020	0507 11:30	0508 21:10	BM
Dissolved Metals								
Aluminum, Dissolved	0.156	mg/l	0.040	1	6020	0506 12:00	0507 18:32	BM
Arsenic, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:32	BM
Cadmium, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:32	BM
Chromium, Dissolved	0.0025	mg/l	0.0020	1	6020	0506 12:00	0507 18:32	BM
Copper, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:32	BM
Iron, Dissolved	0.220	mg/l	0.200	1	6020	0506 12:00	0507 18:32	BM
Lead, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:32	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806323-12
SW-17

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0439	mg/l	0.0020	1	6020	0506 12:00	0507 18:32	BM
Nickel, Dissolved	0.0087	mg/l	0.0020	1	6020	0506 12:00	0507 18:32	BM
Silver, Dissolved	ND	mg/l	0.0020	1	6020	0506 12:00	0507 18:32	BM
Zinc, Dissolved	ND	mg/l	0.0200	1	6020	0506 12:00	0507 18:32	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806323-13
SW-12 (ADD. VOL.)
Sample Matrix: WATER

Date Collected: 02-MAY-2008 11:15
Date Received : 02-MAY-2008
Date Reported : 13-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 7-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID

******* THIS SAMPLE IS ON HOLD *******

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0806323

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Nitrogen, Ammonia for sample(s) 07-12 (L0806323-07, WG321049-3)					
Nitrogen, Ammonia	ND	ND	mg/l	NC	20
Nitrogen, Nitrate for sample(s) 07-12 (L0806323-07, WG320390-4)					
Nitrogen, Nitrate	0.30	0.28	mg/l	7	6
Nitrogen, Total Kjeldahl for sample(s) 07-12 (L0806323-07, WG321050-3)					
Nitrogen, Total Kjeldahl	ND	ND	mg/l	NC	20
Phosphorus, Total for sample(s) 07 (L0806323-07, WG321480-3)					
Phosphorus, Total	0.01	0.01	mg/l	0	20
Phosphorus, Total for sample(s) 08-12 (L0806188-03, WG320787-3)					
Phosphorus, Total	0.27	0.26	mg/l	4	20
Sulfide for sample(s) 07-12 (L0806323-07, WG321129-4)					
Sulfide	ND	ND	mg/l	NC	
Total Organic Carbon for sample(s) 07-12 (L0806323-07, WG321453-4)					
Total Organic Carbon	6.7	7.0	mg/l	4	20
Dissolved Metals for sample(s) 07-12 (L0806323-07, WG320698-5)					
Aluminum, Dissolved	0.141	0.131	mg/l	7	20
Arsenic, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	0.360	0.326	mg/l	10	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Manganese, Dissolved	0.0818	0.0764	mg/l	7	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0806323

Parameter	% Recovery	QC Criteria
Cyanide, Total LCS for sample(s) 07-12 (WG320753-1)		
Cyanide, Total	102	80-120
Nitrogen, Ammonia LCS for sample(s) 07-12 (WG321049-2)		
Nitrogen, Ammonia	95	80-120
Nitrogen, Nitrate LCS for sample(s) 07-12 (WG320390-1)		
Nitrogen, Nitrate	96	90-110
Nitrogen, Total Kjeldahl LCS for sample(s) 07-12 (WG321050-2)		
Nitrogen, Total Kjeldahl	93	75-125
Phosphorus, Total LCS for sample(s) 08-12 (WG320787-2)		
Phosphorus, Total	98	85-115
Phosphorus, Total LCS for sample(s) 07 (WG321480-2)		
Phosphorus, Total	100	85-115
Sulfide LCS for sample(s) 07-12 (WG321129-2)		
Sulfide	88	
Total Organic Carbon LCS for sample(s) 07-12 (WG321453-2)		
Total Organic Carbon	100	90-110
Hardness LCS for sample(s) 07-12 (WG320904-4)		
Hardness	94	80-120
Total Metals LCS for sample(s) 01-03,05-06 (WG320907-4)		
Aluminum, Total	98	80-120
Antimony, Total	104	80-120
Arsenic, Total	101	80-120
Beryllium, Total	110	80-120
Cadmium, Total	112	80-120
Chromium, Total	104	80-120
Lead, Total	103	80-120
Manganese, Total	104	80-120
Thallium, Total	100	80-120
Vanadium, Total	104	80-120
Zinc, Total	107	80-120
Total Metals LCS for sample(s) 07-12 (WG320908-4)		
Aluminum, Total	97	80-120
Arsenic, Total	100	80-120
Cadmium, Total	111	80-120
Chromium, Total	103	80-120
Copper, Total	106	80-120
Iron, Total	110	80-120
Lead, Total	101	80-120
Manganese, Total	104	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0806323

Continued

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 07-12 (WG320908-4)		
Nickel, Total	105	80-120
Silver, Total	96	80-120
Zinc, Total	107	80-120
Total Metals LCS for sample(s) 01-03,05-06 (WG320902-4)		
Sodium, Total	100	80-120
Dissolved Metals LCS for sample(s) 07-12 (WG320698-4)		
Aluminum, Dissolved	104	80-120
Arsenic, Dissolved	102	80-120
Cadmium, Dissolved	113	80-120
Chromium, Dissolved	107	80-120
Copper, Dissolved	109	80-120
Iron, Dissolved	114	80-120
Lead, Dissolved	107	80-120
Manganese, Dissolved	106	80-120
Nickel, Dissolved	106	80-120
Silver, Dissolved	107	80-120
Zinc, Dissolved	111	80-120
Nitrogen, Ammonia SPIKE for sample(s) 07-12 (L0806323-07, WG321049-4)		
Nitrogen, Ammonia	106	75-125
Nitrogen, Nitrate SPIKE for sample(s) 07-12 (L0806323-07, WG320390-3)		
Nitrogen, Nitrate	100	83-120
Nitrogen, Total Kjeldahl SPIKE for sample(s) 07-12 (L0806323-07, WG321050-4)		
Nitrogen, Total Kjeldahl	100	60-140
Phosphorus, Total SPIKE for sample(s) 08-12 (L0806422-01, WG320787-4)		
Phosphorus, Total	100	80-120
Phosphorus, Total SPIKE for sample(s) 07 (L0806323-07, WG321480-4)		
Phosphorus, Total	98	80-120
Sulfide SPIKE for sample(s) 07-12 (L0806323-07, WG321129-3)		
Sulfide	82	
Total Organic Carbon SPIKE for sample(s) 07-12 (L0806323-07, WG321453-3)		
Total Organic Carbon	113	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0806323

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-06 (WG321413-1, WG321413-2)					
Methylene chloride	94	90	4	20	70-130
1,1-Dichloroethane	90	85	6	20	70-130
Chloroform	83	78	6	20	70-130
Carbon tetrachloride	75	74	1	20	70-130
1,2-Dichloropropane	94	94	0	20	70-130
Dibromochloromethane	84	80	5	20	70-130
1,1,2-Trichloroethane	95	92	3	20	70-130
Tetrachloroethene	95	89	7	20	70-130
Chlorobenzene	101	96	5	20	75-130
Trichlorofluoromethane	76	71	7	20	70-130
1,2-Dichloroethane	81	76	6	20	70-130
1,1,1-Trichloroethane	78	75	4	20	70-130
Bromodichloromethane	84	81	4	20	70-130
trans-1,3-Dichloropropene	92	90	2	20	70-130
cis-1,3-Dichloropropene	92	90	2	20	70-130
1,1-Dichloropropene	88	83	6	20	70-130
Bromoform	84	84	0	20	70-130
1,1,2,2-Tetrachloroethane	96	94	2	20	70-130
Benzene	95	92	3	20	76-127
Toluene	100	95	5	20	76-125
Ethylbenzene	98	93	5	20	70-130
Chloromethane	55	54	2	20	70-130
Bromomethane	87	91	4	20	70-130
Vinyl chloride	88	78	12	20	70-130
Chloroethane	89	82	8	20	70-130
1,1-Dichloroethene	92	87	6	20	61-145
trans-1,2-Dichloroethene	92	86	7	20	70-130
Trichloroethene	89	84	6	20	71-120
1,2-Dichlorobenzene	104	101	3	20	70-130
1,3-Dichlorobenzene	105	101	4	20	70-130
1,4-Dichlorobenzene	107	103	4	20	70-130
Methyl tert butyl ether	81	77	5	20	70-130
p/m-Xylene	103	98	5	20	70-130
o-Xylene	101	95	6	20	70-130
cis-1,2-Dichloroethene	99	93	6	20	70-130
Dibromomethane	87	87	0	20	70-130
1,2,3-Trichloropropane	98	96	2	20	70-130
Styrene	102	95	7	20	70-130
Dichlorodifluoromethane	50	45	11	20	70-130
Acetone	117	106	10	20	70-130
Carbon disulfide	94	85	10	20	70-130
2-Butanone	93	88	6	20	70-130
4-Methyl-2-pentanone	99	95	4	20	70-130
2-Hexanone	92	88	4	20	70-130
Bromochloromethane	102	98	4	20	70-130
Tetrahydrofuran	78	79	1	20	70-130
2,2-Dichloropropane	87	86	1	20	70-130
1,2-Dibromoethane	91	88	3	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0806323

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-06 (WG321413-1, WG321413-2)					
1,3-Dichloropropane	91	88	3	20	70-130
1,1,1,2-Tetrachloroethane	91	86	6	20	70-130
Bromobenzene	105	99	6	20	70-130
n-Butylbenzene	95	89	7	20	70-130
sec-Butylbenzene	105	99	6	20	70-130
tert-Butylbenzene	103	97	6	20	70-130
o-Chlorotoluene	100	95	5	20	70-130
p-Chlorotoluene	104	99	5	20	70-130
1,2-Dibromo-3-chloropropane	80	78	3	20	70-130
Hexachlorobutadiene	96	87	10	20	70-130
Isopropylbenzene	124	119	4	20	70-130
p-Isopropyltoluene	106	99	7	20	70-130
Naphthalene	98	94	4	20	70-130
n-Propylbenzene	104	101	3	20	70-130
1,2,3-Trichlorobenzene	100	94	6	20	70-130
1,2,4-Trichlorobenzene	99	92	7	20	70-130
1,3,5-Trimethylbenzene	104	99	5	20	70-130
1,2,4-Trimethylbenzene	98	94	4	20	70-130
Ethyl ether	87	82	6	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	80	81	1		70-130
Toluene-d8	101	100	1		70-130
4-Bromofluorobenzene	97	96	1		70-130
Dibromofluoromethane	91	91	0		70-130
Semivolatile Organics by EPA 8270C for sample(s) 01-03,05-06 (WG320920-3, WG320920-3)					
Acenaphthene	70	70	1	30	46-118
1,2,4-Trichlorobenzene	60	60	5	30	39-98
1,4-Dichlorobenzene	52	52	8	30	36-97
2,4-Dinitrotoluene	86	86	2	30	24-96
n-Nitrosodi-n-propylamine	60	60	12	30	41-116
Pyrene	82	82	1	30	26-127
P-Chloro-M-Cresol	68	68	6	30	23-97
2-Chlorophenol	55	55	10	30	27-123
4-Nitrophenol	48	48	6	30	10-80
Pentachlorophenol	87	87	4	30	9-103
Phenol	27	27	20	30	12-110
Surrogate(s)					
2-Fluorophenol	40	40	0		21-120
Phenol-d6	28	28	0		10-120
Nitrobenzene-d5	61	61	0		23-120
2-Fluorobiphenyl	65	65	0		43-120
2,4,6-Tribromophenol	82	82	0		10-120
4-Terphenyl-d14	94	94	0		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0806323

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Semivolatile Organics by EPA 8270C-SIM for sample(s) 01-03,05-06 (WG320923-2, WG320923-3)					
Pentachlorophenol	83	82	1		30-130
Surrogate(s)					
2-Fluorophenol	44	42	5		21-120
Phenol-d6	34	33	3		10-120
Nitrobenzene-d5	79	75	5		23-120
2-Fluorobiphenyl	63	58	8		43-120
2,4,6-Tribromophenol	75	72	4		10-120
4-Terphenyl-d14	79	79	0		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0806323

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Cyanide, Total for sample(s) 07-12 (L0806323-07, WG320753-4)					
Cyanide, Total	104	104	0	30	80-120
Hardness for sample(s) 07-12 (L0806323-07, WG320904-2)					
Hardness	95	95	0	20	75-125
Total Metals for sample(s) 07-12 (L0806323-07, WG320908-2)					
Aluminum, Total	100	101	1	20	80-120
Arsenic, Total	103	104	1	20	80-120
Cadmium, Total	113	116	3	20	80-120
Chromium, Total	105	108	3	20	80-120
Copper, Total	110	113	3	20	80-120
Iron, Total	113	112	1	20	80-120
Lead, Total	104	106	2	20	80-120
Manganese, Total	106	108	2	20	80-120
Nickel, Total	108	110	2	20	80-120
Silver, Total	96	99	3	20	80-120
Zinc, Total	109	111	2	20	80-120
Total Metals for sample(s) 01-03,05-06 (L0806323-01, WG320907-2)					
Aluminum, Total	104	107	3	20	80-120
Antimony, Total	100	104	4	20	80-120
Arsenic, Total	107	109	2	20	80-120
Beryllium, Total	111	114	3	20	80-120
Cadmium, Total	114	117	3	20	80-120
Chromium, Total	104	107	3	20	80-120
Lead, Total	104	106	2	20	80-120
Manganese, Total	109	114	4	20	80-120
Thallium, Total	102	104	2	20	80-120
Vanadium, Total	103	107	4	20	80-120
Zinc, Total	108	114	5	20	80-120
Total Metals for sample(s) 01-03,05-06 (L0806323-01, WG320902-2)					
Sodium, Total	120	110	9	20	75-125
Dissolved Metals for sample(s) 07-12 (L0806323-07, WG320698-2)					
Aluminum, Dissolved	98	101	3	20	80-120
Arsenic, Dissolved	101	102	1	20	80-120
Cadmium, Dissolved	110	114	4	20	80-120
Chromium, Dissolved	102	105	3	20	80-120
Copper, Dissolved	105	106	1	20	80-120
Iron, Dissolved	100	106	6	20	80-120
Lead, Dissolved	102	104	2	20	80-120
Manganese, Dissolved	99	102	3	20	80-120
Nickel, Dissolved	101	103	2	20	80-120
Silver, Dissolved	102	105	3	20	80-120
Zinc, Dissolved	106	110	4	20	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0806323

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-06 (L0806323-01, WG321413-5)					
Methylene chloride	85	82	4	20	70-130
1,1-Dichloroethane	90	85	6	20	70-130
Chloroform	80	74	8	20	70-130
Carbon tetrachloride	73	69	6	20	70-130
1,2-Dichloropropane	91	88	3	20	70-130
Dibromochloromethane	77	76	1	20	70-130
1,1,2-Trichloroethane	90	87	3	20	70-130
Tetrachloroethene	86	81	6	20	70-130
Chlorobenzene	88	82	7	20	75-130
Trichlorofluoromethane	70	65	7	20	70-130
1,2-Dichloroethane	77	74	4	20	70-130
1,1,1-Trichloroethane	75	71	5	20	70-130
Bromodichloromethane	78	76	3	20	70-130
trans-1,3-Dichloropropene	84	81	4	20	70-130
cis-1,3-Dichloropropene	82	81	1	20	70-130
1,1-Dichloropropene	83	79	5	20	70-130
Bromoform	78	77	1	20	70-130
1,1,2,2-Tetrachloroethane	88	86	2	20	70-130
Benzene	91	86	6	20	76-127
Toluene	95	90	5	20	76-125
Ethylbenzene	92	87	6	20	70-130
Chloromethane	48	46	4	20	70-130
Bromomethane	70	77	10	20	70-130
Vinyl chloride	82	80	2	20	70-130
Chloroethane	92	87	6	20	70-130
1,1-Dichloroethene	85	81	5	20	61-145
trans-1,2-Dichloroethene	86	83	4	20	70-130
Trichloroethene	83	79	5	20	71-120
1,2-Dichlorobenzene	96	96	0	20	70-130
1,3-Dichlorobenzene	93	92	1	20	70-130
1,4-Dichlorobenzene	110	109	1	20	70-130
Methyl tert butyl ether	78	77	1	20	70-130
p/m-Xylene	96	90	6	20	70-130
o-Xylene	96	92	4	20	70-130
cis-1,2-Dichloroethene	92	90	2	20	70-130
Dibromomethane	85	84	1	20	70-130
1,2,3-Trichloropropane	90	91	1	20	70-130
Styrene	95	89	7	20	70-130
Dichlorodifluoromethane	44	40	10	20	70-130
Acetone	103	102	1	20	70-130
Carbon disulfide	76	72	5	20	70-130
2-Butanone	83	84	1	20	70-130
4-Methyl-2-pentanone	87	87	0	20	70-130
2-Hexanone	88	84	5	20	70-130
Bromochloromethane	95	90	5	20	70-130
Tetrahydrofuran	91	93	2	20	70-130
2,2-Dichloropropane	66	61	8	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0806323

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-06 (L0806323-01, WG321413-5)					
1,2-Dibromoethane	88	83	6	20	70-130
1,3-Dichloropropane	88	84	5	20	70-130
1,1,1,2-Tetrachloroethane	84	82	2	20	70-130
Bromobenzene	94	92	2	20	70-130
n-Butylbenzene	60	57	5	20	70-130
sec-Butylbenzene	88	86	2	20	70-130
tert-Butylbenzene	91	87	4	20	70-130
o-Chlorotoluene	90	86	5	20	70-130
p-Chlorotoluene	92	90	2	20	70-130
1,2-Dibromo-3-chloropropane	74	72	3	20	70-130
Hexachlorobutadiene	66	64	3	20	70-130
Isopropylbenzene	115	113	2	20	70-130
p-Isopropyltoluene	86	83	4	20	70-130
Naphthalene	87	86	1	20	70-130
n-Propylbenzene	93	90	3	20	70-130
1,2,3-Trichlorobenzene	83	82	1	20	70-130
1,2,4-Trichlorobenzene	81	79	3	20	70-130
1,3,5-Trimethylbenzene	87	85	2	20	70-130
1,2,4-Trimethylbenzene	82	79	4	20	70-130
Ethyl ether	105	103	2	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	83	82	1		70-130
Toluene-d8	101	100	1		70-130
4-Bromofluorobenzene	96	99	3		70-130
Dibromofluoromethane	93	93	0		70-130
Semivolatile Organics by EPA 8270C for sample(s) 01-03,05-06 (L0806323-01, WG320920-5)					
Acenaphthene	66	70	6	30	46-118
1,2,4-Trichlorobenzene	62	62	0	30	39-98
1,4-Dichlorobenzene	51	55	8	30	36-97
2,4-Dinitrotoluene	78	82	5	30	24-96
n-Nitrosodi-n-propylamine	55	55	0	30	41-116
Pyrene	82	82	0	30	26-127
P-Chloro-M-Cresol	66	70	6	30	23-97
2-Chlorophenol	55	55	0	30	27-123
4-Nitrophenol	76	76	0	30	10-80
Pentachlorophenol	90	90	0	30	9-103
Phenol	41	41	0	30	12-110
Surrogate(s)					
2-Fluorophenol	52	52	0		21-120
Phenol-d6	46	45	2		10-120
Nitrobenzene-d5	61	60	2		23-120
2-Fluorobiphenyl	69	70	1		43-120
2,4,6-Tribromophenol	82	82	0		10-120
4-Terphenyl-d14	95	94	1		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0806323

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Semivolatile Organics by EPA 8270C-SIM for sample(s) 01-03,05-06 (L0806323-01, WG320923-5)					
Pentachlorophenol	98	98	0	40	30-130
Surrogate(s)					
2-Fluorophenol	66	65	2		21-120
Phenol-d6	61	61	0		10-120
Nitrobenzene-d5	86	89	3		23-120
2-Fluorobiphenyl	81	82	1		43-120
2,4,6-Tribromophenol	93	95	2		10-120
4-Terphenyl-d14	105	104	1		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806323

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 07-12 (WG320753-2)								
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0506 16:20	0507 19:30	DD
Blank Analysis for sample(s) 07-12 (WG321049-1)								
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0508 14:01	JL
Blank Analysis for sample(s) 07-12 (WG320390-2)								
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0502 22:56	DD
Blank Analysis for sample(s) 07-12 (WG321050-1)								
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0509 09:52	AT
Blank Analysis for sample(s) 08-12 (WG320787-1)								
Phosphorus, Total	ND	mg/l	0.01	30	4500P-E		0506 16:30	HS
Blank Analysis for sample(s) 07 (WG321480-1)								
Phosphorus, Total	ND	mg/l	0.01	30	4500P-E		0512 14:45	HS
Blank Analysis for sample(s) 07-12 (WG321129-1)								
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Blank Analysis for sample(s) 07-12 (WG321453-1)								
Total Organic Carbon	ND	mg/l	0.50	1	9060		0512 06:24	DW
Blank Analysis for sample(s) 07-12 (WG320904-3)								
Hardness	ND	mg/l	0.66	30	2340B	0507 11:30	0513 11:28	MG
Blank Analysis for sample(s) 01-03,05-06 (WG320907-3)								
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0507 11:30	0508 18:31	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 18:31	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 18:31	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 18:31	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 18:31	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 18:31	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 18:31	BM
Manganese, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 18:31	BM
Thallium, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 18:31	BM

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806323

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03,05-06 (WG320907-3)								
Total Metals								
Vanadium, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 18:31	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0507 11:30	0508 18:31	BM
Blank Analysis for sample(s) 07-12 (WG320908-3)								
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0507 11:30	0508 19:53	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 19:53	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 19:53	BM
Chromium, Total	0.0013	mg/l	0.0005	1	6020	0507 11:30	0508 19:53	BM
Copper, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 19:53	BM
Iron, Total	ND	mg/l	0.050	1	6020	0507 11:30	0508 19:53	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 19:53	BM
Manganese, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 19:53	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 19:53	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0507 11:30	0508 19:53	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0507 11:30	0508 19:53	BM
Blank Analysis for sample(s) 01-03,05-06 (WG320902-3)								
Total Metals								
Sodium, Total	ND	mg/l	2.0	1	6010B	0507 11:30	0513 10:39	MG
Blank Analysis for sample(s) 07-12 (WG320698-3)								
Dissolved Metals								
Aluminum, Dissolved	ND	mg/l	0.010	1	6020	0506 12:00	0507 17:07	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0506 12:00	0507 17:07	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0506 12:00	0507 17:07	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0506 12:00	0507 17:07	BM
Copper, Dissolved	ND	mg/l	0.0005	1	6020	0506 12:00	0507 17:07	BM
Iron, Dissolved	ND	mg/l	0.050	1	6020	0506 12:00	0507 17:07	BM
Lead, Dissolved	ND	mg/l	0.0005	1	6020	0506 12:00	0507 17:07	BM
Manganese, Dissolved	ND	mg/l	0.0005	1	6020	0506 12:00	0507 17:07	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0506 12:00	0507 17:07	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0506 12:00	0507 17:07	BM
Zinc, Dissolved	ND	mg/l	0.0050	1	6020	0506 12:00	0507 17:07	BM
Blank Analysis for sample(s) 01-06 (WG321413-3)								
Volatile Organics by GC/MS 8260				1	8260B		0509 16:58	PD
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806323

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-06 (WG321413-3)							
Volatile Organics by GC/MS 8260 cont'd				1 8260B		0509 16:58	PD
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806323

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-06 (WG321413-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0509 16:58	PD
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	84.0	%	70-130					
Toluene-d8	100	%	70-130					
4-Bromofluorobenzene	97.0	%	70-130					
Dibromofluoromethane	89.0	%	70-130					
Blank Analysis for sample(s) 01-03,05-06 (WG320920-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0508 13:52	PS
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806323

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03,05-06 (WG320920-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0508 13:52	PS
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806323

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03,05-06 (WG320920-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0506 13:15	0508 13:52	PS
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	40.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	61.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	81.0	%	10-120					
4-Terphenyl-d14	96.0	%	33-120					
Blank Analysis for sample(s) 01-03,05-06 (WG320920-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0506 13:15	0508 13:52	PS
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND							
Blank Analysis for sample(s) 01-03,05-06 (WG320923-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0506 13:15	0510 18:25	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	38.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	65.0	%	23-120					
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	84.0	%	10-120					
4-Terphenyl-d14	78.0	%	33-120					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 5/2/08

ALPHA Job #: L0806323

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: The Louis Berger Group, Inc.
Address: 295 Promenade St. Providence, RI 02908
Phone: (401) 521-5980
Fax: (401) 331-8956
Email: dgoney@louisbergerco
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S. Kingstown, RI
Project #: J1-1747
Project Manager: Chris Feeny
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/13/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Billing Information

☐ Same as Client info PO #:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: 8260-VOC; 8270-SVOCs; 6010-metals

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260-VOC	8270-SVOCs	6010-metals	Sample Specific Comments	TOTAL # BOTTLES
L323 - 01	MW-7-DO	5/2/08	9:30	GW	SD	✓	✓	✓		5
- 02	MW-7-BR	5/2/08	9:50	GW	SA	✓	✓	✓		5
- 03	Dup2	5/2/08	9:50	GW	SA	✓	✓	✓		5
- 01 ~~04~~ MS	MW-7MS	5/2/08	9:30	GW	SA	✓	✓	✓		5
- 01 ~~05~~ MSD	MW-7MSD	5/2/08	9:30	GW	SA	✓	✓	✓		5
- 04	Trip Blank	5/2/08			SH	✓	✓	✓		
- 05	Field Blank 1	5/2/08	1:30	GW	SD	2	2	1		5
- 06	Field Blank 2	5/2/08	9:30	GW	SD	2	2	1		5

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type	V	A	P
Preservative	B	A	C

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	5/1/08 15:15	[illegible]	5/2/08 15:15
Paul Gilbert	5/2/08 6:25	Paul Gilbert	5/2/08 16:45
	5/2/08	[illegible]	5/2/08 17:05

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 5/2/08

ALPHA Job #: L0806323

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: The Louis Berger Group, Inc.
Address: 295 Promenade St Providence, RI 02908
Phone: (401) 521-5980
Fax: (401) 331-8956
Email: dagreye louisberger.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S. Kingstown, RI
Project #: J1-1747
Project Manager: Chris Feeny
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/13/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: 6010- dissolved metals; 6010- Total metals; 9010- Cyanide; 9038- Sulfide; Ammonia, TKN, Phosphorus; 6010A- Hardness; 9060 TOC; 4500 nitrate

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	6010- dissolved metals	6010- Total metals	9010- Cyanide	9038- Sulfide	Ammonia, TKN, Phosphorus	6010A- Hardness	9060 TOC	4500 nitrate	Sample Specific Comments	TOTAL # BOTTLES
L323-07	SW-12	5/2/08	11:15	SW	SH	1	1	1	1	1	1	2	1		9
-07	SW-MS	5/2/08	11:15	SW	SH	1	1	1	1	1	1	2	1		9
-07	SW-MSD	5/2/08	11:15	SW	SH	1	1	1	1	1	1	2	1		9
-08	SW-6	5/2/08	11:30	SW	SH	1	1	1	1	1	1	2	1		9
-09	SW-9	5/2/08	12:04	SW	SH	1	1	1	1	1	1	2	1		9
-10	Dup 1	5/2/08	12:04	SW	SH	1	1	1	1	1	1	2	1		9
-11	SW-4	5/2/08	12:20	SW	SH	1	1	1	1	1	1	2	1		9
-12	SW-17	5/2/08	12:46	SW	SH	1	1	1	1	1	1	2	1		9
~~-13~~	Trip Blank	5/2/08			SH										

Container Type	P	P	P	P	P	P	V	P
Preservative	A	C	E	NaE	D	C	D	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	5/2/08 15:15	[illegible]	5/2/08 1515
Paul Gilbert	5/2/08 1625	Paul Gilbert	5/2/08 16:45
Paul Gilbert	5/2/08 1725	Kent Barclay	5/2/08 1725

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Louis A. Berger & Associates, Inc.
Address: 295 Promenade Street
Providence, RI 02908
Attn: Mr. Chris Feeney
Project Number: JI-1747

Laboratory Job Number: L0806445
Date Received: 06-MAY-2008
Date Reported: 19-MAY-2008
Delivery Method: Alpha
Site: ROSE HILL LANDFILL

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0806445-01	SW-2	SOUTH KINGSTOWN, RI
L0806445-02	SW-1	SOUTH KINGSTOWN, RI
L0806445-03	SW-13	SOUTH KINGSTOWN, RI
L0806445-04	FIELD BLANK	SOUTH KINGSTOWN, RI

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Michelle M. Morris
Technical Representative

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0806445

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

The samples L0806445-03E,F and -04E,F were received below the appropriate pH for the Sulfide analysis. The laboratory added additional NaOH to a pH >12.

The samples L0806445-02I and -04I were received above the appropriate pH for the Total Hardness analysis. The laboratory added additional HNO3 to a pH <2.

Dissolved Metals

The results for sample L0806445-04 were confirmed by re-analysis. The original results are reported.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806445-01
SW-2
Sample Matrix: WATER

Date Collected: 05-MAY-2008 09:57
Date Received : 06-MAY-2008
Date Reported : 19-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0510 13:45	0512 18:54	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0513 18:24	JL
Nitrogen, Nitrate	0.86	mg/l	0.10	30	4500NO3-F		0506 23:42	DD
Nitrogen, Total Kjeldahl	0.58	mg/l	0.50	30	4500NH3-BE		0513 10:55	JL
Phosphorus, Total	0.03	mg/l	0.01	30	4500P-E		0512 14:45	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	8.1	mg/l	0.50	1	9060		0514 06:01	DW
Hardness	13	mg/l	0.66	30	2340B	0507 13:30	0515 09:14	MG
Total Metals								
Aluminum, Total	0.198	mg/l	0.010	1	6020	0507 13:30	0507 19:33	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:33	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:33	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:33	BM
Copper, Total	0.0016	mg/l	0.0005	1	6020	0507 13:30	0507 19:33	BM
Iron, Total	0.205	mg/l	0.050	1	6020	0507 13:30	0507 19:33	BM
Lead, Total	0.0007	mg/l	0.0005	1	6020	0507 13:30	0507 19:33	BM
Manganese, Total	0.0212	mg/l	0.0005	1	6020	0507 13:30	0507 19:33	BM
Nickel, Total	0.0005	mg/l	0.0005	1	6020	0507 13:30	0507 19:33	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:33	BM
Zinc, Total	0.1730	mg/l	0.0050	1	6020	0507 13:30	0507 19:33	BM
Dissolved Metals								
Aluminum, Dissolved	0.188	mg/l	0.010	1	6020	0507 11:30	0508 21:48	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 21:48	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 21:48	BM
Chromium, Dissolved	0.0005	mg/l	0.0005	1	6020	0507 11:30	0508 21:48	BM
Copper, Dissolved	0.0025	mg/l	0.0005	1	6020	0507 11:30	0508 21:48	BM
Iron, Dissolved	0.198	mg/l	0.050	1	6020	0507 11:30	0508 21:48	BM
Lead, Dissolved	0.0008	mg/l	0.0005	1	6020	0507 11:30	0508 21:48	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806445-01
SW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0232	mg/l	0.0005	1	6020	0507 11:30	0508 21:48	BM
Nickel, Dissolved	0.0006	mg/l	0.0005	1	6020	0507 11:30	0508 21:48	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 21:48	BM
Zinc, Dissolved	0.1099	mg/l	0.0050	1	6020	0507 11:30	0508 21:48	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806445-02
SW-1
Sample Matrix: WATER

Date Collected: 05-MAY-2008 10:17
Date Received : 06-MAY-2008
Date Reported : 19-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0510 13:45	0512 18:55	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0513 15:52	JL
Nitrogen, Nitrate	0.18	mg/l	0.10	30	4500NO3-F		0506 23:43	DD
Nitrogen, Total Kjeldahl	0.54	mg/l	0.50	30	4500NH3-BE		0513 11:05	JL
Phosphorus, Total	0.02	mg/l	0.01	30	4500P-E		0513 14:30	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	7.7	mg/l	0.50	1	9060		0514 06:01	DW
Hardness	16	mg/l	0.66	30	2340B	0507 13:30	0515 09:27	MG
Total Metals								
Aluminum, Total	0.117	mg/l	0.010	1	6020	0507 13:30	0507 19:38	BM
Arsenic, Total	0.0012	mg/l	0.0005	1	6020	0507 13:30	0507 19:38	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:38	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:38	BM
Copper, Total	0.0010	mg/l	0.0005	1	6020	0507 13:30	0507 19:38	BM
Iron, Total	0.687	mg/l	0.050	1	6020	0507 13:30	0507 19:38	BM
Lead, Total	0.0253	mg/l	0.0005	1	6020	0507 13:30	0507 19:38	BM
Manganese, Total	0.1345	mg/l	0.0005	1	6020	0507 13:30	0507 19:38	BM
Nickel, Total	0.0006	mg/l	0.0005	1	6020	0507 13:30	0507 19:38	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:38	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0507 13:30	0507 19:38	BM
Dissolved Metals								
Aluminum, Dissolved	0.107	mg/l	0.010	1	6020	0507 11:30	0508 22:30	BM
Arsenic, Dissolved	0.0010	mg/l	0.0005	1	6020	0507 11:30	0508 22:30	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:30	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:30	BM
Copper, Dissolved	0.0020	mg/l	0.0005	1	6020	0507 11:30	0508 22:30	BM
Iron, Dissolved	0.676	mg/l	0.050	1	6020	0507 11:30	0508 22:30	BM
Lead, Dissolved	0.0260	mg/l	0.0005	1	6020	0507 11:30	0508 22:30	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806445-02
SW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.1341	mg/l	0.0005	1	6020	0507 11:30	0508 22:30	BM
Nickel, Dissolved	0.0006	mg/l	0.0005	1	6020	0507 11:30	0508 22:30	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:30	BM
Zinc, Dissolved	0.0078	mg/l	0.0050	1	6020	0507 11:30	0508 22:30	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806445-03
SW-13
Sample Matrix: WATER

Date Collected: 05-MAY-2008 10:31
Date Received : 06-MAY-2008
Date Reported : 19-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0510 13:45	0512 18:55	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0513 16:01	JL
Nitrogen, Nitrate	0.12	mg/l	0.10	30	4500NO3-F		0506 23:44	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0513 11:14	JL
Phosphorus, Total	ND	mg/l	0.01	30	4500P-E		0513 14:30	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	5.1	mg/l	0.50	1	9060		0514 06:01	DW
Hardness	9.2	mg/l	0.66	30	2340B	0507 13:30	0515 09:29	MG
Total Metals								
Aluminum, Total	0.193	mg/l	0.010	1	6020	0507 13:30	0507 19:44	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:44	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:44	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:44	BM
Copper, Total	0.0006	mg/l	0.0005	1	6020	0507 13:30	0507 19:44	BM
Iron, Total	0.087	mg/l	0.050	1	6020	0507 13:30	0507 19:44	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:44	BM
Manganese, Total	0.0148	mg/l	0.0005	1	6020	0507 13:30	0507 19:44	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:44	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:44	BM
Zinc, Total	0.0068	mg/l	0.0050	1	6020	0507 13:30	0507 19:44	BM
Dissolved Metals								
Aluminum, Dissolved	0.185	mg/l	0.010	1	6020	0507 11:30	0508 22:36	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:36	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:36	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:36	BM
Copper, Dissolved	0.0018	mg/l	0.0005	1	6020	0507 11:30	0508 22:36	BM
Iron, Dissolved	0.099	mg/l	0.050	1	6020	0507 11:30	0508 22:36	BM
Lead, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:36	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806445-03
SW-13

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0156	mg/l	0.0005	1	6020	0507 11:30	0508 22:36	BM
Nickel, Dissolved	0.0005	mg/l	0.0005	1	6020	0507 11:30	0508 22:36	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:36	BM
Zinc, Dissolved	0.0060	mg/l	0.0050	1	6020	0507 11:30	0508 22:36	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0806445-04
FIELD BLANK
Sample Matrix: WATER

Date Collected: 05-MAY-2008 11:00
Date Received : 06-MAY-2008
Date Reported : 19-MAY-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0510 13:45	0512 18:56	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0513 16:10	JL
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0506 23:44	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0513 11:23	JL
Phosphorus, Total	ND	mg/l	0.01	30	4500P-E		0513 14:30	HS
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Total Organic Carbon	ND	mg/l	0.50	1	9060		0514 06:01	DW
Hardness	ND	mg/l	0.66	30	2340B	0507 13:30	0515 09:31	MG
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0507 13:30	0507 19:50	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:50	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:50	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:50	BM
Copper, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:50	BM
Iron, Total	ND	mg/l	0.050	1	6020	0507 13:30	0507 19:50	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:50	BM
Manganese, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:50	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:50	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 19:50	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0507 13:30	0507 19:50	BM
Dissolved Metals								
Aluminum, Dissolved	ND	mg/l	0.010	1	6020	0507 11:30	0508 22:58	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:58	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:58	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:58	BM
Copper, Dissolved	0.0015	mg/l	0.0005	1	6020	0507 11:30	0508 22:58	BM
Iron, Dissolved	ND	mg/l	0.050	1	6020	0507 11:30	0508 22:58	BM
Lead, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:58	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0806445-04
FIELD BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0007	mg/l	0.0005	1	6020	0507 11:30	0508 22:58	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:58	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 22:58	BM
Zinc, Dissolved	0.0161	mg/l	0.0050	1	6020	0507 11:30	0508 22:58	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0806445

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Nitrogen, Ammonia for sample(s) 01-04 (L0806561-03, WG321572-3)					
Nitrogen, Ammonia	4.03	4.13	mg/l	2	20
Nitrogen, Nitrate for sample(s) 01-04 (L0806444-01, WG320776-4)					
Nitrogen, Nitrate	0.59	0.62	mg/l	5	6
Nitrogen, Total Kjeldahl for sample(s) 01-04 (L0806551-01, WG321426-3)					
Nitrogen, Total Kjeldahl	18	18	mg/l	0	20
Phosphorus, Total for sample(s) 02-04 (L0806610-01, WG321659-3)					
Phosphorus, Total	0.04	0.04	mg/l	7	20
Phosphorus, Total for sample(s) 01 (L0806323-07, WG321480-3)					
Phosphorus, Total	0.01	0.01	mg/l	0	20
Sulfide for sample(s) 01-04 (L0806323-07, WG321129-4)					
Sulfide	ND	ND	mg/l	NC	
Total Organic Carbon for sample(s) 01-04 (L0806653-01, WG321810-4)					
Total Organic Carbon	3.0	3.0	mg/l	0	20
Hardness for sample(s) 01-04 (L0806445-01, WG320913-1)					
Hardness	13	13	mg/l	0	20
Total Metals for sample(s) 01-04 (L0806479-01, WG320911-1)					
Arsenic, Total	0.0020	0.0019	mg/l	7	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.0043	0.0043	mg/l	0	20
Lead, Total	0.0023	0.0022	mg/l	4	20
Nickel, Total	0.0202	0.0198	mg/l	2	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.0518	0.0503	mg/l	3	20
Dissolved Metals for sample(s) 01-04 (L0806445-01, WG320900-1)					
Aluminum, Dissolved	0.188	0.192	mg/l	2	20
Arsenic, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	0.0005	0.0005	mg/l	0	20
Copper, Dissolved	0.0025	0.0026	mg/l	1	20
Iron, Dissolved	0.198	0.200	mg/l	1	20
Lead, Dissolved	0.0008	0.0008	mg/l	0	20
Manganese, Dissolved	0.0232	0.0234	mg/l	1	20
Nickel, Dissolved	0.0006	0.0006	mg/l	0	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.1099	0.1111	mg/l	1	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0806445

Parameter	% Recovery	QC Criteria
Cyanide, Total LCS for sample(s) 01-04 (WG321366-2)		
Cyanide, Total	107	80-120
Nitrogen, Ammonia LCS for sample(s) 01-04 (WG321572-2)		
Nitrogen, Ammonia	96	80-120
Nitrogen, Nitrate LCS for sample(s) 01-04 (WG320776-1)		
Nitrogen, Nitrate	98	90-110
Nitrogen, Total Kjeldahl LCS for sample(s) 01-04 (WG321426-2)		
Nitrogen, Total Kjeldahl	97	75-125
Phosphorus, Total LCS for sample(s) 02-04 (WG321659-2)		
Phosphorus, Total	99	85-115
Phosphorus, Total LCS for sample(s) 01 (WG321480-2)		
Phosphorus, Total	100	85-115
Sulfide LCS for sample(s) 01-04 (WG321129-2)		
Sulfide	88	
Total Organic Carbon LCS for sample(s) 01-04 (WG321810-2)		
Total Organic Carbon	96	90-110
Hardness LCS for sample(s) 01-04 (WG320913-4)		
Hardness	95	80-120
Total Metals LCS for sample(s) 01-04 (WG320911-4)		
Aluminum, Total	100	80-120
Arsenic, Total	100	80-120
Cadmium, Total	113	80-120
Chromium, Total	104	80-120
Copper, Total	106	80-120
Iron, Total	108	80-120
Lead, Total	103	80-120
Manganese, Total	102	80-120
Nickel, Total	102	80-120
Silver, Total	91	80-120
Zinc, Total	106	80-120
Dissolved Metals LCS for sample(s) 01-04 (WG320900-4)		
Aluminum, Dissolved	98	80-120
Arsenic, Dissolved	100	80-120
Cadmium, Dissolved	112	80-120
Chromium, Dissolved	104	80-120
Copper, Dissolved	104	80-120
Iron, Dissolved	108	80-120
Lead, Dissolved	103	80-120
Manganese, Dissolved	104	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0806445

Continued

Parameter	% Recovery	QC Criteria
Dissolved Metals LCS for sample(s) 01-04 (WG320900-4)		
Nickel, Dissolved	103	80-120
Silver, Dissolved	92	80-120
Zinc, Dissolved	106	80-120
Nitrogen, Ammonia SPIKE for sample(s) 01-04 (L0806561-03, WG321572-4)		
Nitrogen, Ammonia	104	75-125
Nitrogen, Nitrate SPIKE for sample(s) 01-04 (L0806445-01, WG320776-3)		
Nitrogen, Nitrate	104	83-120
Nitrogen, Total Kjeldahl SPIKE for sample(s) 01-04 (L0806535-02, WG321426-4)		
Nitrogen, Total Kjeldahl	101	60-140
Phosphorus, Total SPIKE for sample(s) 01 (L0806323-07, WG321480-4)		
Phosphorus, Total	98	80-120
Phosphorus, Total SPIKE for sample(s) 02-04 (L0806610-02, WG321659-4)		
Phosphorus, Total	99	80-120
Sulfide SPIKE for sample(s) 01-04 (L0806323-07, WG321129-3)		
Sulfide	82	
Total Organic Carbon SPIKE for sample(s) 01-04 (L0806653-05, WG321810-3)		
Total Organic Carbon	103	80-120
Hardness SPIKE for sample(s) 01-04 (L0806445-01, WG320913-2)		
Hardness	95	75-125
Total Metals SPIKE for sample(s) 01-04 (L0806479-01, WG320911-2)		
Aluminum, Total	101	80-120
Arsenic, Total	101	80-120
Cadmium, Total	113	80-120
Chromium, Total	105	80-120
Copper, Total	105	80-120
Iron, Total	106	80-120
Lead, Total	103	80-120
Manganese, Total	108	80-120
Nickel, Total	101	80-120
Silver, Total	90	80-120
Zinc, Total	106	80-120
Dissolved Metals SPIKE for sample(s) 01-04 (L0806445-01, WG320900-2)		
Aluminum, Dissolved	97	80-120
Arsenic, Dissolved	98	80-120
Cadmium, Dissolved	109	80-120
Chromium, Dissolved	101	80-120
Copper, Dissolved	102	80-120
Iron, Dissolved	104	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0806445

Continued

Parameter	% Recovery	QC Criteria
Dissolved Metals SPIKE for sample(s) 01-04 (L0806445-01, WG320900-2)		
Lead, Dissolved	101	80-120
Manganese, Dissolved	100	80-120
Nickel, Dissolved	100	80-120
Silver, Dissolved	91	80-120
Zinc, Dissolved	104	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0806445

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Cyanide, Total for sample(s) 01-04 (L0806445-01, WG321366-4)					
Cyanide, Total	105	106	1	30	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806445

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG321366-1)								
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0510 13:45	0512 18:44	DD
Blank Analysis for sample(s) 01-04 (WG321572-1)								
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0513 14:25	JL
Blank Analysis for sample(s) 01-04 (WG320776-2)								
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0506 23:24	DD
Blank Analysis for sample(s) 01-04 (WG321426-1)								
Nitrogen, Total Kjeldahl	ND	mg/l	0.50	30	4500NH3-BE		0513 10:18	JL
Blank Analysis for sample(s) 01 (WG321480-1)								
Phosphorus, Total	ND	mg/l	0.01	30	4500P-E		0512 14:45	HS
Blank Analysis for sample(s) 02-04 (WG321659-1)								
Phosphorus, Total	ND	mg/l	0.01	30	4500P-E		0513 14:30	HS
Blank Analysis for sample(s) 01-04 (WG321129-1)								
Sulfide	ND	mg/l	0.10	1	9030B	0508 11:00	0508 11:00	AT
Blank Analysis for sample(s) 01-04 (WG321810-1)								
Total Organic Carbon	ND	mg/l	0.50	1	9060		0514 06:01	DW
Blank Analysis for sample(s) 01-04 (WG320913-3)								
Hardness	ND	mg/l	0.66	30	2340B	0507 13:30	0515 09:05	MG
Blank Analysis for sample(s) 01-04 (WG320911-3)								
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0507 13:30	0507 18:43	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 18:43	BM
Cadmium, Total	ND	mg/l	0.0002	1	6020	0507 13:30	0507 18:43	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 18:43	BM
Copper, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 18:43	BM
Iron, Total	ND	mg/l	0.050	1	6020	0507 13:30	0507 18:43	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 18:43	BM
Manganese, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 18:43	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0507 13:30	0507 18:43	BM

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0806445

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG320911-3)								
Total Metals								
Silver, Total	ND	mg/l	0.0004	1	6020	0507 13:30	0507 18:43	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0507 13:30	0507 18:43	BM
Blank Analysis for sample(s) 01-04 (WG320900-3)								
Dissolved Metals								
Aluminum, Dissolved	ND	mg/l	0.010	1	6020	0507 11:30	0508 21:37	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 21:37	BM
Cadmium, Dissolved	ND	mg/l	0.0002	1	6020	0507 11:30	0508 21:37	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 21:37	BM
Copper, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 21:37	BM
Iron, Dissolved	ND	mg/l	0.050	1	6020	0507 11:30	0508 21:37	BM
Lead, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 21:37	BM
Manganese, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 21:37	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0507 11:30	0508 21:37	BM
Silver, Dissolved	ND	mg/l	0.0004	1	6020	0507 11:30	0508 21:37	BM
Zinc, Dissolved	ND	mg/l	0.0050	1	6020	0507 11:30	0508 21:37	BM

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/6

ALPHA Job #: L0806445

ALPHA ANALYTICAL

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: The Louis Berger Group, Inc.
Address: 295 Promenade Street
Providence, RI 02908
Phone: 401.521.5980
Fax: 401.331.8956
Email: dganey@louisberger.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S. Kingstown, RI
Project #: JI-1747
Project Manager: Chris Feeney
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/15/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
EPA CERCLA	

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

per QAPP

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	6010 dissolved metals	6010 total metals	9010 cyanide	9055 sulfides	Ammonia	TKN	6010A hardness	9060 TOC	4500 nitrate					Sample Specific Comments	TOTAL # BOTTLES
06445.1	SW-2	~~957~~ 5-5-08	957	SW	DG	1	1	1	2	1	1	2	1							
2	SW-1	↓	1017	↓	↓	1	1	1	2	1	1	2	1							
3	SW-13	↓	1031	↓	↓	1	1	1	2	1	1	2	1							
4	Field Blank		1100	↓	↓	1	1	1	2	1	1	2	1							

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	P	P	P	P	P	P	V	P
Preservative	A	C	B	KE	D	C	B	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
to lab courier	5-5-2008/1300		5/6/08 1130
	5/6/08		5/6/08 1405

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

2nd QUARTER

LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

Lab Number:	L0809998
Client:	Louis A. Berger & Associates, Inc. 295 Promenade Street Providence, RI 02908
ATTN:	Chris Feeney
Project Name:	ROSE HILL LANDFILL
Project Number:	JI-1747
Report Date:	07/17/08

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0809998
Report Date: 07/17/08

Alpha Sample ID	Client ID	Sample Location
L0809998-01	GV-03	SOUTH KINGSTOWN, RI
L0809998-02	GP-21	SOUTH KINGSTOWN, RI
L0809998-03	GP-11	SOUTH KINGSTOWN, RI

Project Name: ROSE HILL LANDFILL **Lab Number:** L0809998
Project Number: JI-1747 **Report Date:** 07/17/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

TO-15

L0809998-01 has elevated detection limits due to the 25x dilution required by the elevated concentrations of target compounds in the sample. The sample required re-analysis on a 238.6x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

L0809998-02, -03 and WG328902-4 Duplicate have elevated detection limits due to the 25x dilution required by the elevated concentrations of target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen M. O'Brien

Title: Technical Director/Representative Date: 07/17/08

AIR

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0809998
Report Date: 07/17/08

SAMPLE RESULTS

Lab ID: L0809998-01
Client ID: GV-03
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/12/08 02:46
Analyst: AR

Date Collected: 07/07/08 13:02
Date Received: 07/08/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	102	5.00	559	27.2		25
1,1,2,2-Tetrachloroethane	ND	5.00	ND	34.3		25
1,1,2-Trichloroethane	ND	5.00	ND	27.2		25
1,1-Dichloroethane	303	5.00	1220	20.2		25
1,1-Dichloroethene	40.3	5.00	160	19.8		25
1,2,4-Trichlorbenzene	ND	5.00	ND	37.1		25
1,2,4-Trimethylbenzene	ND	5.00	ND	24.6		25
1,2-Dibromoethane	ND	5.00	ND	38.4		25
1,2-Dichlorobenzene	ND	5.00	ND	30.0		25
1,2-Dichloroethane	ND	5.00	ND	20.2		25
1,2-Dichloropropane	ND	5.00	ND	23.1		25
1,3,5-Trimethybenzene	ND	5.00	ND	24.6		25
1,3-Butadiene	ND	5.00	ND	11.0		25
1,3-Dichlorobenzene	ND	5.00	ND	30.0		25
1,4-Dichlorobenzene	ND	5.00	ND	30.0		25
2-Butanone	444	5.00	1310	14.7		25
Benzene	35.0	5.00	112	16.0		25
Benzyl chloride	ND	5.00	ND	25.9		25
Bromomethane	ND	5.00	ND	19.4		25
Carbon disulfide	ND	5.00	ND	15.6		25
Carbon tetrachloride	ND	5.00	ND	31.4		25
Chlorobenzene	ND	5.00	ND	23.0		25
Chloroethane	1040	5.00	2740	13.2		25
Chloroform	7.82	5.00	38.1	24.4		25
Chloromethane	ND	5.00	ND	10.3		25

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0809998
Report Date: 07/17/08

SAMPLE RESULTS

Lab ID: L0809998-01
Client ID: GV-03
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 07/07/08 13:02
Date Received: 07/08/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	>2500	5	>9912	19.8		25
cis-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Cyclohexane	120	5.00	414	17.2		25
Dichlorodifluoromethane	76.5	5.00	378	24.7		25
Ethylbenzene	5.88	5.00	25.5	21.7		25
Freon-113	ND	5.00	ND	38.3		25
Freon-114	38.1	5.00	266	34.9		25
Hexachlorobutadiene	ND	5.00	ND	53.3		25
Methylene chloride	23.7	12.5	82.1	43.4		25
Methyl tert butyl ether	ND	5.00	ND	18.0		25
p/m-Xylene	ND	10.0	ND	43.4		25
o-Xylene	ND	5.00	ND	21.7		25
n-Hexane	227	5.00	799	17.6		25
Propylene	ND	5.00	ND	8.60		25
Styrene	ND	5.00	ND	21.3		25
Tetrachloroethene	ND	5.00	ND	33.9		25
Toluene	84.1	5.00	316	18.8		25
trans-1,2-Dichloroethene	30.2	5.00	120	19.8		25
trans-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Trichloroethene	410	5.00	2200	26.8		25
Trichlorofluoromethane	ND	5.00	ND	28.1		25
Vinyl chloride	>2500	5	>6391	12.8		25

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0809998
Report Date: 07/17/08

SAMPLE RESULTS

Lab ID:	L0809998-01 R	Date Collected:	07/07/08 13:02
Client ID:	GV-03	Date Received:	07/08/08
Sample Location:	SOUTH KINGSTOWN, RI	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	48,TO-15		
Analytical Date:	07/16/08 17:59		
Analyst:	AR		

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	8830	47.7	35000	189		238.6
Vinyl chloride	8860	47.7	22600	122		238.6

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0809998
Report Date: 07/17/08

SAMPLE RESULTS

Lab ID: L0809998-02
Client ID: GP-21
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/12/08 03:19
Analyst: AR

Date Collected: 07/07/08 13:27
Date Received: 07/08/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	5.00	ND	27.2		25
1,1,2,2-Tetrachloroethane	ND	5.00	ND	34.3		25
1,1,2-Trichloroethane	ND	5.00	ND	27.2		25
1,1-Dichloroethane	ND	5.00	ND	20.2		25
1,1-Dichloroethene	ND	5.00	ND	19.8		25
1,2,4-Trichlorbenzene	ND	5.00	ND	37.1		25
1,2,4-Trimethylbenzene	ND	5.00	ND	24.6		25
1,2-Dibromoethane	ND	5.00	ND	38.4		25
1,2-Dichlorobenzene	ND	5.00	ND	30.0		25
1,2-Dichloroethane	ND	5.00	ND	20.2		25
1,2-Dichloropropane	ND	5.00	ND	23.1		25
1,3,5-Trimethybenzene	ND	5.00	ND	24.6		25
1,3-Butadiene	ND	5.00	ND	11.0		25
1,3-Dichlorobenzene	ND	5.00	ND	30.0		25
1,4-Dichlorobenzene	ND	5.00	ND	30.0		25
2-Butanone	357	5.00	1050	14.7		25
Benzene	ND	5.00	ND	16.0		25
Benzyl chloride	ND	5.00	ND	25.9		25
Bromomethane	ND	5.00	ND	19.4		25
Carbon disulfide	6.17	5.00	19.2	15.6		25
Carbon tetrachloride	ND	5.00	ND	31.4		25
Chlorobenzene	ND	5.00	ND	23.0		25
Chloroethane	ND	5.00	ND	13.2		25
Chloroform	ND	5.00	ND	24.4		25
Chloromethane	7.67	5.00	15.8	10.3		25

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0809998
Report Date: 07/17/08

SAMPLE RESULTS

Lab ID: L0809998-02
Client ID: GP-21
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 07/07/08 13:27
Date Received: 07/08/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	108	5.00	427	19.8		25
cis-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Cyclohexane	ND	5.00	ND	17.2		25
Dichlorodifluoromethane	ND	5.00	ND	24.7		25
Ethylbenzene	ND	5.00	ND	21.7		25
Freon-113	ND	5.00	ND	38.3		25
Freon-114	ND	5.00	ND	34.9		25
Hexachlorobutadiene	ND	5.00	ND	53.3		25
Methylene chloride	ND	12.5	ND	43.4		25
Methyl tert butyl ether	ND	5.00	ND	18.0		25
p/m-Xylene	ND	10.0	ND	43.4		25
o-Xylene	ND	5.00	ND	21.7		25
n-Hexane	7.64	5.00	26.9	17.6		25
Propylene	130	5.00	223	8.60		25
Styrene	ND	5.00	ND	21.3		25
Tetrachloroethene	ND	5.00	ND	33.9		25
Toluene	ND	5.00	ND	18.8		25
trans-1,2-Dichloroethene	ND	5.00	ND	19.8		25
trans-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Trichloroethene	ND	5.00	ND	26.8		25
Trichlorofluoromethane	ND	5.00	ND	28.1		25
Vinyl chloride	40.6	5.00	104	12.8		25

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0809998
Report Date: 07/17/08

SAMPLE RESULTS

Lab ID: L0809998-03
Client ID: GP-11
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/12/08 04:25
Analyst: AR

Date Collected: 07/07/08 13:32
Date Received: 07/08/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	5.00	ND	27.2		25
1,1,2,2-Tetrachloroethane	ND	5.00	ND	34.3		25
1,1,2-Trichloroethane	ND	5.00	ND	27.2		25
1,1-Dichloroethane	85.6	5.00	346	20.2		25
1,1-Dichloroethene	ND	5.00	ND	19.8		25
1,2,4-Trichlorbenzene	ND	5.00	ND	37.1		25
1,2,4-Trimethylbenzene	ND	5.00	ND	24.6		25
1,2-Dibromoethane	ND	5.00	ND	38.4		25
1,2-Dichlorobenzene	ND	5.00	ND	30.0		25
1,2-Dichloroethane	ND	5.00	ND	20.2		25
1,2-Dichloropropane	ND	5.00	ND	23.1		25
1,3,5-Trimethybenzene	ND	5.00	ND	24.6		25
1,3-Butadiene	ND	5.00	ND	11.0		25
1,3-Dichlorobenzene	ND	5.00	ND	30.0		25
1,4-Dichlorobenzene	ND	5.00	ND	30.0		25
2-Butanone	127	5.00	374	14.7		25
Benzene	23.8	5.00	76.0	16.0		25
Benzyl chloride	ND	5.00	ND	25.9		25
Bromomethane	ND	5.00	ND	19.4		25
Carbon disulfide	6.04	5.00	18.8	15.6		25
Carbon tetrachloride	ND	5.00	ND	31.4		25
Chlorobenzene	ND	5.00	ND	23.0		25
Chloroethane	403	5.00	1060	13.2		25
Chloroform	ND	5.00	ND	24.4		25
Chloromethane	5.50	5.00	11.3	10.3		25

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0809998
Report Date: 07/17/08

SAMPLE RESULTS

Lab ID: L0809998-03
Client ID: GP-11
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 07/07/08 13:32
Date Received: 07/08/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	ND	5.00	ND	19.8		25
cis-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Cyclohexane	40.6	5.00	140	17.2		25
Dichlorodifluoromethane	322	5.00	1590	24.7		25
Ethylbenzene	ND	5.00	ND	21.7		25
Freon-113	ND	5.00	ND	38.3		25
Freon-114	195	5.00	1360	34.9		25
Hexachlorobutadiene	ND	5.00	ND	53.3		25
Methylene chloride	ND	12.5	ND	43.4		25
Methyl tert butyl ether	ND	5.00	ND	18.0		25
p/m-Xylene	ND	10.0	ND	43.4		25
o-Xylene	ND	5.00	ND	21.7		25
n-Hexane	95.3	5.00	336	17.6		25
Propylene	ND	5.00	ND	8.60		25
Styrene	ND	5.00	ND	21.3		25
Tetrachloroethene	ND	5.00	ND	33.9		25
Toluene	7.92	5.00	29.8	18.8		25
trans-1,2-Dichloroethene	ND	5.00	ND	19.8		25
trans-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Trichloroethene	ND	5.00	ND	26.8		25
Trichlorofluoromethane	ND	5.00	ND	28.1		25
Vinyl chloride	99.5	5.00	254	12.8		25

Project Name: ROSE HILL LANDFILL **Lab Number:** L0809998

Project Number: JI-1747 **Report Date:** 07/17/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/11/08 14:12

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-03 Batch: WG328902-3						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorbenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	ND	0.200	ND	0.589		1
Benzene	ND	0.200	ND	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0809998

Project Number: JI-1747 **Report Date:** 07/17/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/11/08 14:12

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-03 Batch: WG328902-3						
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl chloride	ND	0.200	ND	0.511		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0809998

Project Number: JI-1747 **Report Date:** 07/17/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/16/08 17:20

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01 Batch: WG328902-7						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorbenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	ND	0.200	ND	0.589		1
Benzene	ND	0.200	ND	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0809998

Project Number: JI-1747 **Report Date:** 07/17/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/16/08 17:20

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01 Batch: WG328902-7						
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl chloride	ND	0.200	ND	0.511		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0809998
Report Date: 07/17/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-03 Batch: WG328902-2					
1,1,1-Trichloroethane	109	-	70-130	-	
1,1,2,2-Tetrachloroethane	107	-	70-130	-	
1,1,2-Trichloroethane	104	-	70-130	-	
1,1-Dichloroethane	105	-	70-130	-	
1,1-Dichloroethene	94	-	70-130	-	
1,2,4-Trichlorobenzene	116	-	70-130	-	
1,2,4-Trimethylbenzene	102	-	70-130	-	
1,2-Dibromoethane	96	-	70-130	-	
1,2-Dichlorobenzene	99	-	70-130	-	
1,2-Dichloroethane	108	-	70-130	-	
1,2-Dichloropropane	114	-	70-130	-	
1,3,5-Trimethylbenzene	99	-	70-130	-	
1,3-Butadiene	101	-	70-130	-	
1,3-Dichlorobenzene	99	-	70-130	-	
1,4-Dichlorobenzene	100	-	70-130	-	
2-Butanone	98	-	70-130	-	
Benzene	108	-	70-130	-	
Benzyl chloride	106	-	70-130	-	
Bromomethane	82	-	70-130	-	
Carbon disulfide	93	-	70-130	-	
Carbon tetrachloride	103	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0809998
Report Date: 07/17/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-03 Batch: WG328902-2					
Chlorobenzene	100	-	70-130	-	
Chloroethane	96	-	70-130	-	
Chloroform	103	-	70-130	-	
Chloromethane	96	-	70-130	-	
cis-1,2-Dichloroethene	106	-	70-130	-	
cis-1,3-Dichloropropene	102	-	70-130	-	
Cyclohexane	105	-	70-130	-	
Dichlorodifluoromethane	93	-	70-130	-	
Ethylbenzene	104	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	93	-	70-130	-	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	97	-	70-130	-	
Hexachlorobutadiene	101	-	70-130	-	
Methylene chloride	99	-	70-130	-	
Methyl tert butyl ether	98	-	70-130	-	
p/m-Xylene	102	-	70-130	-	
o-Xylene	103	-	70-130	-	
n-Hexane	107	-	70-130	-	
Propylene	98	-	70-130	-	
Styrene	100	-	70-130	-	
Tetrachloroethene	100	-	70-130	-	
Toluene	102	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0809998
Report Date: 07/17/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-03 Batch: WG328902-2					
trans-1,2-Dichloroethene	97	-	70-130	-	
trans-1,3-Dichloropropene	92	-	70-130	-	
Trichloroethene	106	-	70-130	-	
Trichlorofluoromethane	92	-	70-130	-	
Vinyl chloride	97	-	70-130	-	
Low Level Volatile Organic Compounds in Air Associated sample(s): 01 Batch: WG328902-6					
1,1,1-Trichloroethane	109	-	70-130	-	
1,1,2,2-Tetrachloroethane	111	-	70-130	-	
1,1,2-Trichloroethane	113	-	70-130	-	
1,1-Dichloroethane	103	-	70-130	-	
1,1-Dichloroethene	91	-	70-130	-	
1,2,4-Trichlorobenzene	106	-	70-130	-	
1,2,4-Trimethylbenzene	105	-	70-130	-	
1,2-Dibromoethane	99	-	70-130	-	
1,2-Dichlorobenzene	101	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0809998
Report Date: 07/17/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01 Batch: WG328902-6					
1,2-Dichloroethane	104	-	70-130	-	
1,2-Dichloropropane	126	-	70-130	-	
1,3,5-Trimethylbenzene	105	-	70-130	-	
1,3-Butadiene	100	-	70-130	-	
1,3-Dichlorobenzene	102	-	70-130	-	
1,4-Dichlorobenzene	103	-	70-130	-	
2-Butanone	102	-	70-130	-	
Benzene	115	-	70-130	-	
Benzyl chloride	105	-	70-130	-	
Bromomethane	77	-	70-130	-	
Carbon disulfide	88	-	70-130	-	
Carbon tetrachloride	105	-	70-130	-	
Chlorobenzene	102	-	70-130	-	
Chloroethane	96	-	70-130	-	
Chloroform	98	-	70-130	-	
Chloromethane	95	-	70-130	-	
cis-1,2-Dichloroethene	104	-	70-130	-	
cis-1,3-Dichloropropene	111	-	70-130	-	
Cyclohexane	114	-	70-130	-	
Dichlorodifluoromethane	86	-	70-130	-	
Ethylbenzene	112	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0809998
Report Date: 07/17/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01 Batch: WG328902-6					
1,1,2-Trichloro-1,2,2-Trifluoroethane	88	-	70-130	-	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	90	-	70-130	-	
Hexachlorobutadiene	94	-	70-130	-	
Methylene chloride	100	-	70-130	-	
Methyl tert butyl ether	101	-	70-130	-	
p/m-Xylene	110	-	70-130	-	
o-Xylene	112	-	70-130	-	
n-Hexane	117	-	70-130	-	
Propylene	97	-	70-130	-	
Styrene	106	-	70-130	-	
Tetrachloroethene	98	-	70-130	-	
Toluene	99	-	70-130	-	
trans-1,2-Dichloroethene	96	-	70-130	-	
trans-1,3-Dichloropropene	102	-	70-130	-	
Trichloroethene	108	-	70-130	-	
Trichlorofluoromethane	84	-	70-130	-	
Vinyl chloride	94	-	70-130	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0809998
Report Date: 07/17/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-03 QC Batch ID: WG328902-4 QC Sample: L0809998-02 Client ID: GP-21					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trichlorbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethybenzene	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
2-Butanone	357	376	ppbV	5	25
Benzene	ND	ND	ppbV	NC	25
Benzyl chloride	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0809998
Report Date: 07/17/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-03 QC Batch ID: WG328902-4 QC Sample: L0809998-02 Client ID: GP-21					
Carbon disulfide	6.17	5.37	ppbV	14	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	7.67	6.62	ppbV	15	25
cis-1,2-Dichloroethene	108	108	ppbV	0	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
n-Hexane	7.64	7.59	ppbV	1	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0809998
Report Date: 07/17/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-03 QC Batch ID: WG328902-4 QC Sample: L0809998-02 Client ID: GP-21					
Propylene	130	118	ppbV	10	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Toluene	ND	ND	ppbV	NC	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl chloride	40.6	34.9	ppbV	15	25

Project Name: ROSE HILL LANDFILL **Lab Number:** L0809998

Project Number: JI-1747 **Report Date:** 07/17/08

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0809998-01	GV-03	0439	#20 SV		-	-	9.8	7.8	23
L0809998-01	GV-03	465	2.7L Can	L0809160-01	-29.2	-6.0	-	-	-
L0809998-02	GP-21	0204	#20 SV		-	-	9.8	9.7	1
L0809998-02	GP-21	397	2.7L Can	L0809160-01	-29.2	-1.0	-	-	-
L0809998-03	GP-11	0002	#20 SV		-	-	9.8	9.9	1
L0809998-03	GP-11	157	2.7L Can	L0809160-01	-29.3	-0.7	-	-	-

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0809998
Report Date: 07/17/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0809998-01A	Canister - 2.7 Liter	NA	NA		NA	Absent	TO15-LL
L0809998-02A	Canister - 2.7 Liter	NA	NA		NA	Absent	TO15-LL
L0809998-03A	Canister - 2.7 Liter	NA	NA		NA	Absent	TO15-LL

Project Name:	ROSE HILL LANDFILL	**Lab Number:**	L0809998
Project Number:	JI-1747	**Report Date:**	07/17/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified

Project Name: ROSE HILL LANDFILL **Lab Number:** L0809998
Project Number: JI-1747 **Report Date:** 07/17/08

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — *CHAIN OF CUSTODY*

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0809998

07170816:22

Client Information

Client: Louis Berger Group
Address: 295 Promenade St
Providence, RI 02908
Phone: (401) 521-5980
Fax: (401) 331-8956
Email: dgaye@louisberger.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rox Hill landfill
Project Location: Skinptown, RI
Project #: J1-1743
Project Manager: Chris Feery
ALPHA Quote #:

Turn-Around Time

☐ Standard 10 DAYS ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ NDEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☐ EMAIL (standard pdf report)
☐ Additional Deliverables: _____

Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info ✓ PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
9998-01	6V-03	7/7/08	8:58	13:02	-29.8		SV	SH		465	0439		✓						
-02	6P-21	7/7/08	9:12	13:27	-29.2		SV	SH		397	0204		✓						
-03	6P-11	7/7/08	9:23	13:32	-29.3		SV	SH		157	0002		✓						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Alpha courier 7/8/08	7/8/08 1010	[illegible]	7/8/08 11:40 7-8-08 4:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 (rev.1-Feb-08)

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Louis A. Berger & Associates, Inc.

Address: 295 Promenade Street
Providence, RI 02908

Attn: Mr. Chris Feeney

Project Number: J1-1747

Laboratory Job Number: L0810010

Date Received: 08-JUL-2008

Date Reported: 21-JUL-2008

Delivery Method: Alpha

Site: ROSE HILL LANDFILL

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0810010-01	MW-4S	S. KINGSTON, RI
L0810010-02	DUP-3	S. KINGSTON, RI
L0810010-03	MW-4DO	S. KINGSTON, RI
L0810010-04	MW-11S	S. KINGSTON, RI
L0810010-05	MW-11DO	S. KINGSTON, RI
L0810010-06	MW-11BR	S. KINGSTON, RI
L0810010-07	MW-05S	S. KINGSTON, RI

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Michelle M. Morris
Technical Representative

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0810010

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

Sample DUP-3 and one of the containers submitted for samples MW-4DO and MW-11DO were received above the appropriate pH for the total metals analysis. The laboratory added additional HNO3 to a pH <2.

Volatile Organics

The WG328557-1/-2 LCS/LCSD recoveries, associated with L0810010-01 through -03 and -05 through -07, for Bromoform (65%/60%) and the LCSD recovery for 1,2-Dibromo-3-chloropropane (69%) are below the acceptance criteria. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG328557-5 MSD recovery was outside the acceptance criteria for Isopropylbenzene (131%); however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MSD are considered to have a potentially high bias for this compound.

The WG328560-1/-2 LCS/LCSD recoveries, associated with L0810010-04, for Bromoform (65%/60%) and the LCSD recovery for 1,2-Dibromo-3-chloropropane (69%) are below the acceptance criteria. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG328560-4/-5 MS/MSD recoveries for Tetrahydrofuran (149%/132%) and the MSD recovery for Isopropylbenzene (134%) were outside the acceptance criteria; however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS are considered to have a potentially high bias for Tetrahydrofuran and Isopropylbenzene.

Semivolatile Organics

L0810010-01 through -03 and WG328423-1 Blank: N,N-Dimethylformamide was not detected as a TIC.

L0810010-04 through -07 and WG328595-1 Blank: N,N-Dimethylformamide was not detected as a TIC.

The WG328423-3 LCSD recovery, associated with L0810010-01 through -03, was above the acceptance criteria for Pentachlorophenol (108%); however, the associated LCS and MS/MSD recoveries were within criteria. Non-conformance isolated to the LCSD; no further action required.

The WG328595-5 MSD recovery, associated with L0810010-04 through -07, was above the acceptance criteria for Pentachlorophenol (110%); however, the associated LCS/LCSD recoveries were within criteria.

Metals

The WG328628-4 MS/MSD RPD associated with L0810010-04 is above the acceptance criteria for Manganese. The results of the associated samples are reported. Both the MS and MSD had

---

acceptable recoveries. No further action was taken.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810010-01
MW-4S
Sample Matrix: WATER

Date Collected: 08-JUL-2008 09:52
Date Received : 08-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0709 15:15	0710 16:47	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:47	BM
Arsenic, Total	0.0009	mg/l	0.0005	1	6020	0709 15:15	0710 16:47	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:47	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:47	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:47	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:47	BM
Manganese, Total	3.951	mg/l	0.0005	1	6020	0709 15:15	0710 16:47	BM
Sodium, Total	8.0	mg/l	2.0	1	6010B	0709 15:15	0719 09:48	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:47	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:47	BM
Zinc, Total	0.0177	mg/l	0.0050	1	6020	0709 15:15	0710 16:47	BM
Volatile Organics by GC/MS 8260				1	8260B		0709 13:36	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-01
MW-4S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 13:36	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	1.1	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	104	%	70-130					
Toluene-d8	97.0	%	70-130					
4-Bromofluorobenzene	101	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-01
MW-4S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 13:36	GK
Dibromofluoromethane	101	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0709 13:45	0716 16:37	AK
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.8					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-01
MW-4S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0709 13:45	0716 16:37	AK
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.8					
2,4-Dimethylphenol	ND	ug/l	9.8					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.8					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.8					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.8					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	23.0	%	10-120					
Nitrobenzene-d5	51.0	%	23-120					
2-Fluorobiphenyl	50.0	%	43-120					
2,4,6-Tribromophenol	67.0	%	10-120					
4-Terphenyl-d14	69.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0709 13:45	0716 16:37	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0709 13:45	0711 14:43	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	33.0	%	21-120					
Phenol-d6	24.0	%	10-120					
Nitrobenzene-d5	53.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-01
MW-4S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0709 13:45	0711 14:43	RL
2-Fluorobiphenyl	46.0	%	43-120					
2,4,6-Tribromophenol	74.0	%	10-120					
4-Terphenyl-d14	68.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810010-02
DUP-3
Sample Matrix: WATER

Date Collected: 08-JUL-2008 09:58
Date Received : 08-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0709 15:15	0710 16:52	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:52	BM
Arsenic, Total	0.0009	mg/l	0.0005	1	6020	0709 15:15	0710 16:52	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:52	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:52	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:52	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:52	BM
Manganese, Total	3.666	mg/l	0.0005	1	6020	0709 15:15	0710 16:52	BM
Sodium, Total	8.1	mg/l	2.0	1	6010B	0709 15:15	0719 09:50	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:52	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:52	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0709 15:15	0710 16:52	BM
Volatile Organics by GC/MS 8260				1	8260B		0709 14:10	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-02
DUP-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 14:10	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	1.2	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	106	%	70-130					
Toluene-d8	98.0	%	70-130					
4-Bromofluorobenzene	101	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-02
DUP-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 14:10	GK
Dibromofluoromethane	99.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0709 13:45	0716 17:02	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-02
DUP-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0709 13:45	0716 17:02	AK
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	39.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	60.0	%	23-120					
2-Fluorobiphenyl	56.0	%	43-120					
2,4,6-Tribromophenol	75.0	%	10-120					
4-Terphenyl-d14	77.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0709 13:45	0716 17:02	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0709 13:45	0711 15:34	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	24.0	%	10-120					
Nitrobenzene-d5	52.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-02
DUP-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0709 13:45	0711 15:34	RL
2-Fluorobiphenyl	45.0	%	43-120					
2,4,6-Tribromophenol	72.0	%	10-120					
4-Terphenyl-d14	71.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810010-03
MW-4DO
Sample Matrix: WATER

Date Collected: 08-JUL-2008 10:42
Date Received : 08-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 6-Amber,3-Plastic,6-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0709 15:15	0710 17:03	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:03	BM
Arsenic, Total	0.0014	mg/l	0.0005	1	6020	0709 15:15	0710 17:03	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:03	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:03	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:03	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:03	BM
Manganese, Total	2.297	mg/l	0.0005	1	6020	0709 15:15	0710 17:03	BM
Sodium, Total	15	mg/l	2.0	1	6010B	0709 15:15	0719 09:37	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:03	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:03	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0709 15:15	0710 17:03	BM
Volatile Organics by GC/MS 8260				1	8260B		0709 16:24	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	0.57	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-03
MW-4DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 16:24	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	5.1	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	107	%	70-130					
Toluene-d8	97.0	%	70-130					
4-Bromofluorobenzene	102	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-03
MW-4DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 16:24	GK
Dibromofluoromethane	102	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0709 13:45	0716 17:26	AK
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.8					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-03
MW-4DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0709 13:45	0716 17:26	AK
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.8					
2,4-Dimethylphenol	ND	ug/l	9.8					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.8					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.8					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.8					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	39.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	59.0	%	23-120					
2-Fluorobiphenyl	54.0	%	43-120					
2,4,6-Tribromophenol	81.0	%	10-120					
4-Terphenyl-d14	77.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0709 13:45	0716 17:26	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0709 13:45	0716 10:10	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	43.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	72.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-03
MW-4DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0709 13:45	0716 10:10	RL
2-Fluorobiphenyl	67.0	%	43-120					
2,4,6-Tribromophenol	102	%	10-120					
4-Terphenyl-d14	87.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810010-04
MW-11S
Sample Matrix: WATER

Date Collected: 08-JUL-2008 11:59
Date Received : 08-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 6-Amber,3-Plastic,6-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0710 13:15	0711 21:36	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:36	BM
Arsenic, Total	0.0016	mg/l	0.0005	1	6020	0710 13:15	0711 21:36	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:36	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:36	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:36	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:36	BM
Manganese, Total	2.034	mg/l	0.0010	1	6020	0710 13:15	0711 21:36	BM
Sodium, Total	16	mg/l	2.0	1	6010B	0710 13:15	0718 10:11	MG
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:36	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:36	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:15	0711 21:36	BM
Volatile Organics by GC/MS 8260				1	8260B		0709 16:58	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	2.6	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	1.8	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-04
MW-11S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 16:58	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	13	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	0.59	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	4.1	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	107	%	70-130					
Toluene-d8	97.0	%	70-130					
4-Bromofluorobenzene	100	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-04
MW-11S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 16:58	GK
Dibromofluoromethane	101	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 19:54	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-04
MW-11S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0716 19:54	AK
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	64.0	%	23-120					
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	87.0	%	10-120					
4-Terphenyl-d14	84.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 19:54	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0716 14:56	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	42.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	77.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-04
MW-11S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0716 14:56	RL
2-Fluorobiphenyl	67.0	%	43-120					
2,4,6-Tribromophenol	105	%	10-120					
4-Terphenyl-d14	83.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810010-05
MW-11DO
Sample Matrix: WATER

Date Collected: 08-JUL-2008 13:05
Date Received : 08-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0709 15:15	0710 17:42	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:42	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:42	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:42	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:42	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:42	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:42	BM
Manganese, Total	1.948	mg/l	0.0005	1	6020	0709 15:15	0710 17:42	BM
Sodium, Total	27	mg/l	2.0	1	6010B	0709 15:15	0719 09:53	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:42	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:42	BM
Zinc, Total	0.0079	mg/l	0.0050	1	6020	0709 15:15	0710 17:42	BM
Volatile Organics by GC/MS 8260				1	8260B		0709 14:43	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	0.68	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	0.74	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-05
MW-11DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 14:43	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	3.0	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	106	%	70-130					
Toluene-d8	96.0	%	70-130					
4-Bromofluorobenzene	101	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-05
MW-11DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 14:43	GK
Dibromofluoromethane	101	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 20:18	AK
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-05
MW-11DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0716 20:18	AK
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	43.0	%	21-120					
Phenol-d6	30.0	%	10-120					
Nitrobenzene-d5	65.0	%	23-120					
2-Fluorobiphenyl	61.0	%	43-120					
2,4,6-Tribromophenol	90.0	%	10-120					
4-Terphenyl-d14	83.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 20:18	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0716 15:43	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.77					
Hexachlorobenzene	ND	ug/l	0.77					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	48.0	%	21-120					
Phenol-d6	33.0	%	10-120					
Nitrobenzene-d5	84.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-05
MW-11DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0716 15:43	RL
2-Fluorobiphenyl	74.0	%	43-120					
2,4,6-Tribromophenol	113	%	10-120					
4-Terphenyl-d14	82.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810010-06
MW-11BR
Sample Matrix: WATER

Date Collected: 08-JUL-2008 13:42
Date Received : 08-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.045	mg/l	0.010	1	6020	0709 15:15	0710 17:47	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:47	BM
Arsenic, Total	0.0006	mg/l	0.0005	1	6020	0709 15:15	0710 17:47	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:47	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:47	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:47	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:47	BM
Manganese, Total	0.0036	mg/l	0.0005	1	6020	0709 15:15	0710 17:47	BM
Sodium, Total	80	mg/l	2.0	1	6010B	0709 15:15	0719 10:11	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:47	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:47	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0709 15:15	0710 17:47	BM
Volatile Organics by GC/MS 8260				1	8260B		0709 15:17	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-06
MW-11BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 15:17	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	105	%	70-130					
Toluene-d8	96.0	%	70-130					
4-Bromofluorobenzene	101	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-06
MW-11BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 15:17	GK
Dibromofluoromethane	99.0	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 12:54	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-06
MW-11BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0717 12:54	AK
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	37.0	%	21-120					
Phenol-d6	25.0	%	10-120					
Nitrobenzene-d5	58.0	%	23-120					
2-Fluorobiphenyl	55.0	%	43-120					
2,4,6-Tribromophenol	74.0	%	10-120					
4-Terphenyl-d14	88.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 12:54	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0716 16:31	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	77.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-06
MW-11BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0716 16:31	RL
2-Fluorobiphenyl	68.0	%	43-120					
2,4,6-Tribromophenol	82.0	%	10-120					
4-Terphenyl-d14	91.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810010-07
MW-05S
Sample Matrix: WATER

Date Collected: 08-JUL-2008 14:47
Date Received : 08-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0709 15:15	0710 17:53	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:53	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:53	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:53	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:53	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:53	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:53	BM
Manganese, Total	0.0017	mg/l	0.0005	1	6020	0709 15:15	0710 17:53	BM
Sodium, Total	12	mg/l	2.0	1	6010B	0709 15:15	0719 10:13	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:53	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 17:53	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0709 15:15	0710 17:53	BM
Volatile Organics by GC/MS 8260				1	8260B		0709 15:51	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-07
MW-05S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 15:51	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	106	%	70-130					
Toluene-d8	96.0	%	70-130					
4-Bromofluorobenzene	102	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-07
MW-05S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 15:51	GK
Dibromofluoromethane	102	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 21:07	AK
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.7					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-07
MW-05S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0716 21:07	AK
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.7					
2,4-Dimethylphenol	ND	ug/l	9.7					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.7					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.7					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.7					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	43.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	58.0	%	23-120					
2-Fluorobiphenyl	59.0	%	43-120					
2,4,6-Tribromophenol	85.0	%	10-120					
4-Terphenyl-d14	82.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 21:07	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0716 17:20	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.77					
Hexachlorobenzene	ND	ug/l	0.77					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	48.0	%	21-120					
Phenol-d6	34.0	%	10-120					
Nitrobenzene-d5	78.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810010-07
MW-05S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0716 17:20	RL
2-Fluorobiphenyl	73.0	%	43-120					
2,4,6-Tribromophenol	111	%	10-120					
4-Terphenyl-d14	89.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0810010

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 04 (L0810010-04, WG328627-1)					
Sodium, Total	16	16	mg/l	0	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0810010

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 04 (WG328628-2)		
Aluminum, Total	90	80-120
Antimony, Total	96	80-120
Arsenic, Total	92	80-120
Beryllium, Total	103	80-120
Cadmium, Total	104	80-120
Chromium, Total	98	80-120
Lead, Total	104	80-120
Manganese, Total	97	80-120
Thallium, Total	98	80-120
Vanadium, Total	97	80-120
Zinc, Total	98	80-120
Total Metals LCS for sample(s) 01-03,05-07 (WG328478-4)		
Aluminum, Total	99	80-120
Antimony, Total	97	80-120
Arsenic, Total	97	80-120
Beryllium, Total	99	80-120
Cadmium, Total	104	80-120
Chromium, Total	99	80-120
Lead, Total	104	80-120
Manganese, Total	98	80-120
Thallium, Total	97	80-120
Vanadium, Total	99	80-120
Zinc, Total	102	80-120
Total Metals LCS for sample(s) 01-03,05-07 (WG329099-5)		
Sodium, Total	120	80-120
Total Metals LCS for sample(s) 04 (WG328627-5)		
Sodium, Total	110	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810010

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 04 (WG328560-1, WG328560-2)					
Methylene chloride	95	91	4	20	70-130
1,1-Dichloroethane	86	82	5	20	70-130
Chloroform	85	83	2	20	70-130
Carbon tetrachloride	80	75	6	20	70-130
1,2-Dichloropropane	83	84	1	20	70-130
Dibromochloromethane	80	78	3	20	70-130
1,1,2-Trichloroethane	81	81	0	20	70-130
Tetrachloroethene	84	83	1	20	70-130
Chlorobenzene	82	83	1	20	75-130
Trichlorofluoromethane	96	93	3	20	70-130
1,2-Dichloroethane	89	88	1	20	70-130
1,1,1-Trichloroethane	85	81	5	20	70-130
Bromodichloromethane	85	83	2	20	70-130
trans-1,3-Dichloropropene	75	73	3	20	70-130
cis-1,3-Dichloropropene	81	80	1	20	70-130
1,1-Dichloropropene	84	83	1	20	70-130
Bromoform	65	60	8	20	70-130
1,1,2,2-Tetrachloroethane	86	83	4	20	70-130
Benzene	87	84	4	20	76-127
Toluene	83	82	1	20	76-125
Ethylbenzene	84	84	0	20	70-130
Chloromethane	85	82	4	20	70-130
Bromomethane	75	78	4	20	70-130
Vinyl chloride	87	82	6	20	70-130
Chloroethane	82	81	1	20	70-130
1,1-Dichloroethene	87	85	2	20	61-145
trans-1,2-Dichloroethene	85	82	4	20	70-130
Trichloroethene	87	84	4	20	71-120
1,2-Dichlorobenzene	85	83	2	20	70-130
1,3-Dichlorobenzene	85	83	2	20	70-130
1,4-Dichlorobenzene	86	83	4	20	70-130
Methyl tert butyl ether	99	93	6	20	70-130
p/m-Xylene	85	83	2	20	70-130
o-Xylene	88	88	0	20	70-130
cis-1,2-Dichloroethene	86	84	2	20	70-130
Dibromomethane	88	86	2	20	70-130
1,2,3-Trichloropropane	94	95	1	20	70-130
Styrene	89	88	1	20	70-130
Dichlorodifluoromethane	98	98	0	20	70-130
Acetone	89	82	8	20	70-130
Carbon disulfide	86	83	4	20	70-130
2-Butanone	95	92	3	20	70-130
4-Methyl-2-pentanone	101	103	2	20	70-130
2-Hexanone	96	95	1	20	70-130
Bromochloromethane	93	87	7	20	70-130
Tetrahydrofuran	98	90	9	20	70-130
2,2-Dichloropropane	91	88	3	20	70-130
1,2-Dibromoethane	84	84	0	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810010

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 04 (WG328560-1, WG328560-2)					
1,3-Dichloropropane	83	82	1	20	70-130
1,1,1,2-Tetrachloroethane	76	75	1	20	70-130
Bromobenzene	84	83	1	20	70-130
n-Butylbenzene	88	82	7	20	70-130
sec-Butylbenzene	89	85	5	20	70-130
tert-Butylbenzene	87	84	4	20	70-130
o-Chlorotoluene	90	88	2	20	70-130
p-Chlorotoluene	86	85	1	20	70-130
1,2-Dibromo-3-chloropropane	72	69	4	20	70-130
Hexachlorobutadiene	85	82	4	20	70-130
Isopropylbenzene	102	100	2	20	70-130
p-Isopropyltoluene	90	86	5	20	70-130
Naphthalene	79	77	3	20	70-130
n-Propylbenzene	87	84	4	20	70-130
1,2,3-Trichlorobenzene	84	84	0	20	70-130
1,2,4-Trichlorobenzene	84	80	5	20	70-130
1,3,5-Trimethylbenzene	87	83	5	20	70-130
1,2,4-Trimethylbenzene	86	83	4	20	70-130
Ethyl ether	95	91	4	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	101	100	1		70-130
Toluene-d8	97	98	1		70-130
4-Bromofluorobenzene	99	98	1		70-130
Dibromofluoromethane	102	100	2		70-130
Volatile Organics by GC/MS 8260 for sample(s) 01-03,05-07 (WG328557-1, WG328557-2)					
Methylene chloride	95	91	4	20	70-130
1,1-Dichloroethane	86	82	5	20	70-130
Chloroform	85	83	2	20	70-130
Carbon tetrachloride	80	75	6	20	70-130
1,2-Dichloropropane	83	84	1	20	70-130
Dibromochloromethane	80	78	3	20	70-130
1,1,2-Trichloroethane	81	81	0	20	70-130
Tetrachloroethene	84	83	1	20	70-130
Chlorobenzene	82	83	1	20	75-130
Trichlorofluoromethane	96	93	3	20	70-130
1,2-Dichloroethane	89	88	1	20	70-130
1,1,1-Trichloroethane	85	81	5	20	70-130
Bromodichloromethane	85	83	2	20	70-130
trans-1,3-Dichloropropene	75	73	3	20	70-130
cis-1,3-Dichloropropene	81	80	1	20	70-130
1,1-Dichloropropene	84	83	1	20	70-130
Bromoform	65	60	8	20	70-130
1,1,2,2-Tetrachloroethane	86	83	4	20	70-130
Benzene	87	84	4	20	76-127
Toluene	83	82	1	20	76-125

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810010

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-03,05-07 (WG328557-1, WG328557-2)					
Ethylbenzene	84	84	0	20	70-130
Chloromethane	85	82	4	20	70-130
Bromomethane	75	78	4	20	70-130
Vinyl chloride	87	82	6	20	70-130
Chloroethane	82	81	1	20	70-130
1,1-Dichloroethene	87	85	2	20	61-145
trans-1,2-Dichloroethene	85	82	4	20	70-130
Trichloroethene	87	84	4	20	71-120
1,2-Dichlorobenzene	85	83	2	20	70-130
1,3-Dichlorobenzene	85	83	2	20	70-130
1,4-Dichlorobenzene	86	83	4	20	70-130
Methyl tert butyl ether	99	93	6	20	70-130
p/m-Xylene	85	83	2	20	70-130
o-Xylene	88	88	0	20	70-130
cis-1,2-Dichloroethene	86	84	2	20	70-130
Dibromomethane	88	86	2	20	70-130
1,2,3-Trichloropropane	94	95	1	20	70-130
Styrene	89	88	1	20	70-130
Dichlorodifluoromethane	98	98	0	20	70-130
Acetone	89	82	8	20	70-130
Carbon disulfide	86	83	4	20	70-130
2-Butanone	95	92	3	20	70-130
4-Methyl-2-pentanone	101	103	2	20	70-130
2-Hexanone	96	95	1	20	70-130
Bromochloromethane	93	87	7	20	70-130
Tetrahydrofuran	98	90	9	20	70-130
2,2-Dichloropropane	91	88	3	20	70-130
1,2-Dibromoethane	84	84	0	20	70-130
1,3-Dichloropropane	83	82	1	20	70-130
1,1,1,2-Tetrachloroethane	76	75	1	20	70-130
Bromobenzene	84	83	1	20	70-130
n-Butylbenzene	88	82	7	20	70-130
sec-Butylbenzene	89	85	5	20	70-130
tert-Butylbenzene	87	84	4	20	70-130
o-Chlorotoluene	90	88	2	20	70-130
p-Chlorotoluene	86	85	1	20	70-130
1,2-Dibromo-3-chloropropane	72	69	4	20	70-130
Hexachlorobutadiene	85	82	4	20	70-130
Isopropylbenzene	102	100	2	20	70-130
p-Isopropyltoluene	90	86	5	20	70-130
Naphthalene	79	77	3	20	70-130
n-Propylbenzene	87	84	4	20	70-130
1,2,3-Trichlorobenzene	84	84	0	20	70-130
1,2,4-Trichlorobenzene	84	80	5	20	70-130
1,3,5-Trimethylbenzene	87	83	5	20	70-130
1,2,4-Trimethylbenzene	86	83	4	20	70-130
Ethyl ether	95	91	4	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810010

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-03,05-07 (WG328557-1, WG328557-2)					
Surrogate(s)					
1,2-Dichloroethane-d4	101	100	1		70-130
Toluene-d8	97	98	1		70-130
4-Bromofluorobenzene	99	98	1		70-130
Dibromofluoromethane	102	100	2		70-130
Semivolatile Organics by EPA 8270C for sample(s) 04-07 (WG328595-2, WG328595-3)					
Acenaphthene	67	58	14	30	46-118
1,2,4-Trichlorobenzene	61	48	24	30	39-98
2-Chloronaphthalene	67	57	16	30	40-140
1,2-Dichlorobenzene	62	47	28	30	40-140
1,4-Dichlorobenzene	58	45	25	30	36-97
2,4-Dinitrotoluene	83	74	11	30	24-96
2,6-Dinitrotoluene	86	77	11	30	40-140
Fluoranthene	93	87	7	30	40-140
4-Chlorophenyl phenyl ether	72	62	15	30	40-140
n-Nitrosodi-n-propylamine	61	52	16	30	41-116
Butyl benzyl phthalate	91	86	6	30	40-140
Anthracene	76	69	10	30	40-140
Pyrene	86	81	6	30	26-127
P-Chloro-M-Cresol	73	62	16	30	23-97
2-Chlorophenol	69	56	21	30	27-123
2-Nitrophenol	78	65	18	30	30-130
4-Nitrophenol	39	36	8	30	10-80
2,4-Dinitrophenol	88	82	7	30	30-130
Pentachlorophenol	101	87	15	30	9-103
Phenol	34	28	19	30	12-110
Surrogate(s)					
2-Fluorophenol	50	42	17		21-120
Phenol-d6	35	29	19		10-120
Nitrobenzene-d5	74	63	16		23-120
2-Fluorobiphenyl	64	58	10		43-120
2,4,6-Tribromophenol	86	74	15		10-120
4-Terphenyl-d14	84	79	6		33-120
Semivolatile Organics by EPA 8270C for sample(s) 01-03 (WG328423-2, WG328423-3)					
Acenaphthene	72	79	9	30	46-118
1,2,4-Trichlorobenzene	60	72	18	30	39-98
2-Chloronaphthalene	68	77	12	30	40-140
1,2-Dichlorobenzene	59	70	17	30	40-140
1,4-Dichlorobenzene	58	67	14	30	36-97
2,4-Dinitrotoluene	85	94	10	30	24-96
2,6-Dinitrotoluene	89	99	11	30	40-140
Fluoranthene	95	100	5	30	40-140
4-Chlorophenyl phenyl ether	79	87	10	30	40-140

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810010

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Semivolatile Organics by EPA 8270C for sample(s) 01-03 (WG328423-2, WG328423-3)					
n-Nitrosodi-n-propylamine	61	68	11	30	41-116
Butyl benzyl phthalate	93	96	3	30	40-140
Anthracene	78	83	6	30	40-140
Pyrene	87	92	6	30	26-127
P-Chloro-M-Cresol	74	83	11	30	23-97
2-Chlorophenol	62	73	16	30	27-123
2-Nitrophenol	72	84	15	30	30-130
4-Nitrophenol	40	46	14	30	10-80
2,4-Dinitrophenol	92	103	11	30	30-130
Pentachlorophenol	101	108	7	30	9-103
Phenol	30	35	15	30	12-110
Surrogate(s)					
2-Fluorophenol	47	54	14		21-120
Phenol-d6	32	37	14		10-120
Nitrobenzene-d5	69	80	15		23-120
2-Fluorobiphenyl	67	75	11		43-120
2,4,6-Tribromophenol	91	101	10		10-120
4-Terphenyl-d14	85	88	3		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 04-07 (WG328594-2, WG328594-3)					
Pentachlorophenol	74	85	14		30-130
Surrogate(s)					
2-Fluorophenol	38	44	15		21-120
Phenol-d6	27	30	11		10-120
Nitrobenzene-d5	65	74	13		23-120
2-Fluorobiphenyl	57	68	18		43-120
2,4,6-Tribromophenol	76	86	12		10-120
4-Terphenyl-d14	67	87	26		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 01-03 (WG328422-2, WG328422-3)					
Pentachlorophenol	90	97	7		30-130
Surrogate(s)					
2-Fluorophenol	43	46	7		21-120
Phenol-d6	32	33	3		10-120
Nitrobenzene-d5	68	73	7		23-120
2-Fluorobiphenyl	57	64	12		43-120
2,4,6-Tribromophenol	90	104	14		10-120
4-Terphenyl-d14	81	84	4		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0810010

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Total Metals for sample(s) 01-03,05-07 (L0810010-03, WG328478-2)					
Aluminum, Total	98	98	0	20	80-120
Antimony, Total	102	101	1	20	80-120
Arsenic, Total	108	107	1	20	80-120
Beryllium, Total	99	97	2	20	80-120
Cadmium, Total	106	106	0	20	80-120
Chromium, Total	101	100	1	20	80-120
Lead, Total	107	106	1	20	80-120
Manganese, Total	113	111	2	20	80-120
Thallium, Total	99	98	1	20	80-120
Vanadium, Total	100	100	0	20	80-120
Zinc, Total	104	102	2	20	80-120
Total Metals for sample(s) 04 (L0810010-04, WG328628-4)					
Aluminum, Total	81	90	11	20	80-120
Antimony, Total	89	97	9	20	80-120
Arsenic, Total	95	98	3	20	80-120
Beryllium, Total	96	101	5	20	80-120
Cadmium, Total	95	102	7	20	80-120
Chromium, Total	88	96	9	20	80-120
Lead, Total	96	100	4	20	80-120
Manganese, Total	81	121	40	20	80-120
Thallium, Total	92	96	4	20	80-120
Vanadium, Total	87	96	10	20	80-120
Zinc, Total	90	96	6	20	80-120
Total Metals for sample(s) 01-03,05-07 (L0810010-03, WG329099-3)					
Sodium, Total	110	110	0	20	75-125
Total Metals for sample(s) 04 (L0810010-04, WG328627-3)					
Sodium, Total	110	120	9	20	75-125
Volatile Organics by GC/MS 8260 for sample(s) 01-03,05-07 (L0810010-03, WG328557-5)					
Methylene chloride	112	121	8	20	70-130
1,1-Dichloroethane	107	114	6	20	70-130
Chloroform	105	112	6	20	70-130
Carbon tetrachloride	88	94	7	20	70-130
1,2-Dichloropropane	102	108	6	20	70-130
Dibromochloromethane	90	96	6	20	70-130
1,1,2-Trichloroethane	102	103	1	20	70-130
Tetrachloroethene	103	107	4	20	70-130
Chlorobenzene	104	109	5	20	75-130
Trichlorofluoromethane	124	127	2	20	70-130
1,2-Dichloroethane	112	117	4	20	70-130
1,1,1-Trichloroethane	98	107	9	20	70-130
Bromodichloromethane	103	109	6	20	70-130
trans-1,3-Dichloropropene	77	82	6	20	70-130
cis-1,3-Dichloropropene	92	96	4	20	70-130
1,1-Dichloropropene	106	110	4	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0810010

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-03,05-07 (L0810010-03, WG328557-5)					
Bromoform	73	76	4	20	70-130
1,1,2,2-Tetrachloroethane	102	104	2	20	70-130
Benzene	104	109	5	20	76-127
Toluene	101	106	5	20	76-125
Ethylbenzene	104	109	5	20	70-130
Chloromethane	98	107	9	20	70-130
Bromomethane	91	107	16	20	70-130
Vinyl chloride	107	116	8	20	70-130
Chloroethane	101	111	9	20	70-130
1,1-Dichloroethene	107	116	8	20	61-145
trans-1,2-Dichloroethene	105	110	5	20	70-130
Trichloroethene	108	112	4	20	71-120
1,2-Dichlorobenzene	102	105	3	20	70-130
1,3-Dichlorobenzene	101	107	6	20	70-130
1,4-Dichlorobenzene	104	108	4	20	70-130
Methyl tert butyl ether	101	96	5	20	70-130
p/m-Xylene	104	108	4	20	70-130
o-Xylene	102	102	0	20	70-130
cis-1,2-Dichloroethene	103	113	9	20	70-130
Dibromomethane	109	114	4	20	70-130
1,2,3-Trichloropropane	114	114	0	20	70-130
Styrene	101	100	1	20	70-130
Dichlorodifluoromethane	111	123	10	20	70-130
Acetone	97	97	0	20	70-130
Carbon disulfide	91	93	2	20	70-130
2-Butanone	100	96	4	20	70-130
4-Methyl-2-pentanone	106	104	2	20	70-130
2-Hexanone	100	95	5	20	70-130
Bromochloromethane	106	108	2	20	70-130
Tetrahydrofuran	118	105	12	20	70-130
2,2-Dichloropropane	88	94	7	20	70-130
1,2-Dibromoethane	100	104	4	20	70-130
1,3-Dichloropropane	100	104	4	20	70-130
1,1,1,2-Tetrachloroethane	84	90	7	20	70-130
Bromobenzene	102	107	5	20	70-130
n-Butylbenzene	104	107	3	20	70-130
sec-Butylbenzene	108	112	4	20	70-130
tert-Butylbenzene	106	109	3	20	70-130
o-Chlorotoluene	91	94	3	20	70-130
p-Chlorotoluene	105	109	4	20	70-130
1,2-Dibromo-3-chloropropane	79	82	4	20	70-130
Hexachlorobutadiene	99	102	3	20	70-130
Isopropylbenzene	126	131	4	20	70-130
p-Isopropyltoluene	109	112	3	20	70-130
Naphthalene	90	90	0	20	70-130
n-Propylbenzene	107	112	5	20	70-130
1,2,3-Trichlorobenzene	100	104	4	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0810010

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-03,05-07 (L0810010-03, WG328557-5)					
1,2,4-Trichlorobenzene	96	101	5	20	70-130
1,3,5-Trimethylbenzene	103	109	6	20	70-130
1,2,4-Trimethylbenzene	103	109	6	20	70-130
Ethyl ether	115	105	9	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	108	105	3		70-130
Toluene-d8	96	94	2		70-130
4-Bromofluorobenzene	97	98	1		70-130
Dibromofluoromethane	102	102	0		70-130
Volatile Organics by GC/MS 8260 for sample(s) 04 (L0810010-04, WG328560-5)					
Methylene chloride	109	117	7	20	70-130
1,1-Dichloroethane	107	117	9	20	70-130
Chloroform	98	110	12	20	70-130
Carbon tetrachloride	90	97	7	20	70-130
1,2-Dichloropropane	100	108	8	20	70-130
Dibromochloromethane	93	99	6	20	70-130
1,1,2-Trichloroethane	99	104	5	20	70-130
Tetrachloroethene	100	107	7	20	70-130
Chlorobenzene	98	106	8	20	75-130
Trichlorofluoromethane	116	128	10	20	70-130
1,2-Dichloroethane	112	119	6	20	70-130
1,1,1-Trichloroethane	97	108	11	20	70-130
Bromodichloromethane	101	109	8	20	70-130
trans-1,3-Dichloropropene	80	85	6	20	70-130
cis-1,3-Dichloropropene	91	99	8	20	70-130
1,1-Dichloropropene	100	111	10	20	70-130
Bromoform	75	83	10	20	70-130
1,1,2,2-Tetrachloroethane	100	109	9	20	70-130
Benzene	102	108	6	20	76-127
Toluene	99	106	7	20	76-125
Ethylbenzene	101	109	8	20	70-130
Chloromethane	97	107	10	20	70-130
Bromomethane	96	106	10	20	70-130
Vinyl chloride	100	112	11	20	70-130
Chloroethane	99	105	6	20	70-130
1,1-Dichloroethene	105	117	11	20	61-145
trans-1,2-Dichloroethene	104	110	6	20	70-130
Trichloroethene	99	110	11	20	71-120
1,2-Dichlorobenzene	106	113	6	20	70-130
1,3-Dichlorobenzene	101	111	9	20	70-130
1,4-Dichlorobenzene	115	124	8	20	70-130
Methyl tert butyl ether	102	92	10	20	70-130
p/m-Xylene	102	109	7	20	70-130
o-Xylene	100	100	0	20	70-130
cis-1,2-Dichloroethene	101	109	8	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0810010

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 04 (L0810010-04, WG328560-5)					
Dibromomethane	107	112	5	20	70-130
1,2,3-Trichloropropane	110	119	8	20	70-130
Styrene	100	100	0	20	70-130
Dichlorodifluoromethane	111	124	11	20	70-130
Acetone	99	95	4	20	70-130
Carbon disulfide	91	92	1	20	70-130
2-Butanone	101	92	9	20	70-130
4-Methyl-2-pentanone	113	98	14	20	70-130
2-Hexanone	105	93	12	20	70-130
Bromochloromethane	104	112	7	20	70-130
Tetrahydrofuran	149	132	12	20	70-130
2,2-Dichloropropane	87	93	7	20	70-130
1,2-Dibromoethane	101	105	4	20	70-130
1,3-Dichloropropane	100	105	5	20	70-130
1,1,1,2-Tetrachloroethane	86	91	6	20	70-130
Bromobenzene	98	109	11	20	70-130
n-Butylbenzene	104	112	7	20	70-130
sec-Butylbenzene	108	116	7	20	70-130
tert-Butylbenzene	104	116	11	20	70-130
o-Chlorotoluene	88	98	11	20	70-130
p-Chlorotoluene	101	114	12	20	70-130
1,2-Dibromo-3-chloropropane	82	83	1	20	70-130
Hexachlorobutadiene	102	106	4	20	70-130
Isopropylbenzene	122	134	9	20	70-130
p-Isopropyltoluene	106	118	11	20	70-130
Naphthalene	94	96	2	20	70-130
n-Propylbenzene	105	116	10	20	70-130
1,2,3-Trichlorobenzene	104	106	2	20	70-130
1,2,4-Trichlorobenzene	99	104	5	20	70-130
1,3,5-Trimethylbenzene	102	113	10	20	70-130
1,2,4-Trimethylbenzene	101	110	9	20	70-130
Ethyl ether	103	89	15	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	108	105	3		70-130
Toluene-d8	98	97	1		70-130
4-Bromofluorobenzene	99	101	2		70-130
Dibromofluoromethane	103	106	3		70-130
Semivolatile Organics by EPA 8270C for sample(s) 01-03 (L0810010-03, WG328423-5)					
Acenaphthene	69	74	7	30	46-118
1,2,4-Trichlorobenzene	64	69	8	30	39-98
2-Chloronaphthalene	69	74	7	30	40-140
1,2-Dichlorobenzene	60	69	14	30	40-140
1,4-Dichlorobenzene	60	69	14	30	36-97
2,4-Dinitrotoluene	83	87	5	30	24-96
2,6-Dinitrotoluene	87	92	6	30	40-140

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0810010

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Semivolatile Organics by EPA 8270C for sample(s) 01-03 (L0810010-03, WG328423-5)					
Fluoranthene	87	92	6	30	40-140
4-Chlorophenyl phenyl ether	74	78	5	30	40-140
n-Nitrosodi-n-propylamine	60	64	6	30	41-116
Butyl benzyl phthalate	87	92	6	30	40-140
Anthracene	74	74	0	30	40-140
Pyrene	83	83	0	30	26-127
P-Chloro-M-Cresol	74	83	11	30	23-97
2-Chlorophenol	67	74	10	30	27-123
2-Nitrophenol	74	83	11	30	30-130
4-Nitrophenol	62	67	8	30	10-80
2,4-Dinitrophenol	92	97	5	30	30-130
Pentachlorophenol	97	100	3	30	9-103
Phenol	48	55	14	30	12-110
Surrogate(s)					
2-Fluorophenol	62	72	15		21-120
Phenol-d6	51	58	13		10-120
Nitrobenzene-d5	71	78	9		23-120
2-Fluorobiphenyl	65	72	10		43-120
2,4,6-Tribromophenol	90	95	5		10-120
4-Terphenyl-d14	78	82	5		33-120
Semivolatile Organics by EPA 8270C for sample(s) 04-07 (L0810010-04, WG328595-5)					
Acenaphthene	62	67	8	30	46-118
1,2,4-Trichlorobenzene	58	62	7	30	39-98
2-Chloronaphthalene	58	67	14	30	40-140
1,2-Dichlorobenzene	53	62	16	30	40-140
1,4-Dichlorobenzene	53	58	9	30	36-97
2,4-Dinitrotoluene	77	86	11	30	24-96
2,6-Dinitrotoluene	82	91	10	30	40-140
Fluoranthene	82	96	16	30	40-140
4-Chlorophenyl phenyl ether	67	77	14	30	40-140
n-Nitrosodi-n-propylamine	48	58	19	30	41-116
Butyl benzyl phthalate	82	96	16	30	40-140
Anthracene	67	77	14	30	40-140
Pyrene	77	91	17	30	26-127
P-Chloro-M-Cresol	70	79	12	30	23-97
2-Chlorophenol	58	67	14	30	27-123
2-Nitrophenol	65	72	10	30	30-130
4-Nitrophenol	58	67	14	30	10-80
2,4-Dinitrophenol	82	96	16	30	30-130
Pentachlorophenol	89	110	21	30	9-103
Phenol	43	48	11	30	12-110
Surrogate(s)					
2-Fluorophenol	52	58	11		21-120
Phenol-d6	45	48	6		10-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0810010

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Semivolatile Organics by EPA 8270C for sample(s) 04-07 (L0810010-04, WG328595-5)					
Nitrobenzene-d5	60	67	11		23-120
2-Fluorobiphenyl	58	63	8		43-120
2,4,6-Tribromophenol	74	91	21		10-120
4-Terphenyl-d14	72	83	14		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 01-03 (L0810010-03, WG328422-5)					
Pentachlorophenol	97	97	0	40	30-130
Surrogate(s)					
2-Fluorophenol	67	68	1		21-120
Phenol-d6	56	57	2		10-120
Nitrobenzene-d5	98	98	0		23-120
2-Fluorobiphenyl	78	77	1		43-120
2,4,6-Tribromophenol	101	100	1		10-120
4-Terphenyl-d14	93	94	1		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 04-07 (L0810010-04, WG328594-5)					
Pentachlorophenol	91	91	0	40	30-130
Surrogate(s)					
2-Fluorophenol	59	53	11		21-120
Phenol-d6	51	44	15		10-120
Nitrobenzene-d5	89	83	7		23-120
2-Fluorobiphenyl	68	61	11		43-120
2,4,6-Tribromophenol	87	84	4		10-120
4-Terphenyl-d14	87	83	5		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810010

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03,05-07 (WG328478-3)								
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0709 15:15	0710 16:36	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:36	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:36	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:36	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:36	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:36	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:36	BM
Manganese, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:36	BM
Thallium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:36	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0709 15:15	0710 16:36	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0709 15:15	0710 16:36	BM
Blank Analysis for sample(s) 04 (WG328628-1)								
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0710 13:15	0711 21:08	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:08	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:08	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:08	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:08	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:08	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:08	BM
Manganese, Total	ND	mg/l	0.0010	1	6020	0710 13:15	0711 21:08	BM
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:08	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0710 13:15	0711 21:08	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:15	0711 21:08	BM
Blank Analysis for sample(s) 04 (WG328627-4)								
Total Metals								
Sodium, Total	ND	mg/l	2.0	1	6010B	0710 13:15	0718 09:51	MG
Blank Analysis for sample(s) 01-03,05-07 (WG329099-4)								
Total Metals								
Sodium, Total	ND	mg/l	2.0	1	6010B	0709 15:15	0719 09:29	AI
Blank Analysis for sample(s) 01-03,05-07 (WG328557-3)								
Volatile Organics by GC/MS 8260				1	8260B		0709 10:47	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810010

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03,05-07 (WG328557-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 10:47	GK
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810010

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PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03,05-07 (WG328557-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 10:47	GK
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	102	%	70-130					
Toluene-d8	99.0	%	70-130					
4-Bromofluorobenzene	102	%	70-130					
Dibromofluoromethane	102	%	70-130					
Blank Analysis for sample(s) 04 (WG328560-3)								
Volatile Organics by GC/MS 8260				1	8260B		0709 10:47	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810010

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04 (WG328560-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 10:47	GK
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810010

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04 (WG328560-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0709 10:47	GK
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	102	%	70-130					
Toluene-d8	99.0	%	70-130					
4-Bromofluorobenzene	102	%	70-130					
Dibromofluoromethane	102	%	70-130					
Blank Analysis for sample(s) 01-03 (WG328423-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0709 13:45	0716 14:35	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810010

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03 (WG328423-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0709 13:45	0716 14:35	AK
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	42.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	61.0	%	23-120					
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	75.0	%	10-120					
4-Terphenyl-d14	77.0	%	33-120					
Blank Analysis for sample(s) 01-03 (WG328423-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0709 13:45	0716 14:35	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810010

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PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04-07 (WG328595-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 17:51	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810010

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04-07 (WG328595-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0716 17:51	AK
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	58.0	%	23-120					
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	72.0	%	10-120					
4-Terphenyl-d14	77.0	%	33-120					
Blank Analysis for sample(s) 04-07 (WG328595-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 17:51	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Blank Analysis for sample(s) 01-03 (WG328422-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0709 13:45	0711 10:09	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810010

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03 (WG328422-1)								
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0709 13:45	0711 10:09	RL
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	36.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	57.0	%	23-120					
2-Fluorobiphenyl	49.0	%	43-120					
2,4,6-Tribromophenol	79.0	%	10-120					
4-Terphenyl-d14	72.0	%	33-120					
Blank Analysis for sample(s) 04-07 (WG328594-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0716 10:58	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	46.0	%	21-120					
Phenol-d6	32.0	%	10-120					
Nitrobenzene-d5	72.0	%	23-120					
2-Fluorobiphenyl	64.0	%	43-120					
2,4,6-Tribromophenol	92.0	%	10-120					
4-Terphenyl-d14	92.0	%	33-120					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/8/08

ALPHA Job #: L0810010

Client Information

Client: The Louis Berger Group

Address: 295 Promenade St. Providence, RI 02908

Phone: (401) 521-5980

Fax: (401) 331-8956

Email: dgoney@louisberger.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill landfill

Project Location: S. Kingstown, RI

Project #: J1-17473

Project Manager: Chris Fecny

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 7/17/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260B	8270C	SW3005A/SW6020	Sample Specific Comments
10010-01	~~GW~~ MW-4S	7/8/08	9:52	GW	SH	↓	↓	↓	
-02	Rip 3	7/8/08	9:58	GW	SH				
-03	MW-400	7/8/08	10:42	GW	SH				
-03	~~[illegible]~~ MS-1	7/8/08	10:50	GW	SH				
-03	MSD-1	7/8/08	11:00	GW	SH				
-04	MW-11S	7/8/08	11:59	GW	SH				
-04	MS-2	7/8/08	12:08	GW	SH				
-04	MSD-2	7/8/08	12:16	GW	SH				
-05	MW-11DC	7/8/08	13:05	GW	SH				
-06	MW-11BR	7/8/08	13:42	GW	SH				

Container Type														
Preservative	HCl	HNO3												

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	7/8/08 1755	[signature]	7/8/08 1755

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/8/08

ALPHA Job #: L0810010

Client Information

Client: The Louis Berger Group

Address: 295 Promenade St. Providence, RI 02908

Phone: (401) 521-5980

Fax: (401) 331-8956

Email: dgrey@louisberger.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill

Project Location: S. Kingstown, RI

Project #: J1-1474

Project Manager: Chris Feeney

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 7/17/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasorable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: 8260B, 8270C, Sw 3005A/6010B

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260B	8270C	Sw 3005A/6010B	Sample Specific Comments
10010-07	MW-05S	7/3/08	14:47	GW	SH	—	—		

Container Type		—	HCl									
Preservative		4°C	HCl									

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	7/8/08 3:3	[illegible]	7/8/08 1535
[illegible]	7/8/08 1755	Thelma Tracy	7/8/08 1755

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time cloc will not start until any ambiguities resolved. All samples submitted a subject to Alpha's Payment Terms See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Louis A. Berger & Associates, Inc.

Address: 295 Promenade Street
Providence, RI 02908

Attn: Mr. Chris Feeney

Project Number: JI-1747

Laboratory Job Number: L0810112

Date Received: 09-JUL-2008

Date Reported: 21-JUL-2008

Delivery Method: Alpha

Site: ROSE HILL LANDFILL

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0810112-01	MW-7DO	S. KINGSTOWN, RI
L0810112-02	MW-7BR	S. KINGSTOWN, RI
L0810112-03	DUP-1	S. KINGSTOWN, RI
L0810112-04	MW-13S	S. KINGSTOWN, RI
L0810112-05	DUP-2	S. KINGSTOWN, RI
L0810112-06	MW-3BR	S. KINGSTOWN, RI
L0810112-07	MW-3S	S. KINGSTOWN, RI
L0810112-08	MW-06DO	S. KINGSTOWN, RI
L0810112-09	FIELD BLANK-GW	S. KINGSTOWN, RI
L0810112-10	SW-17	S. KINGSTOWN, RI
L0810112-11	SW FIELD BLANK	S. KINGSTOWN, RI
L0810112-12	TRIP BLANK	S. KINGSTOWN, RI

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Michelle M. Morris
Technical Representative

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0810112

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

At the client's request, the sample identified as "MW-13DO" on the chain of custody is reported as "MW-13S ".

The Trip Blank was received in the laboratory but not listed on the Chain of Custody. At the request of the client, the Trip Blank was analyzed.

Semivolatile Organics by EPA 8270C

L0810112-01 through -09 and WG328595-1 Blank: N,N-Dimethylformamide was not detected as a TIC.

The surrogate recovery for L0810112-03 was below the acceptance criteria for 2-Fluorophenol; however, the criteria was achieved upon re-extraction outside of holding time. The results of both extractions are reported.

Semivolatile Organics by EPA 8270C-SIM

The surrogate recovery for L0810112-03 was below the acceptance criteria for 2-Fluorophenol; however, the criteria was achieved upon re-extraction outside of holding time. The results of both extractions are reported.

Metals

The WG328637-1 laboratory duplicate RPD for Arsenic is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

The WG328637-2 MS recovery for Iron is invalid because the sample concentration is greater than four times the spike amount added.

Total Phosphorus

L0810112-10 has an elevated detection limit due to the 5x dilution required due to matrix.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-01
MW-7DO
Sample Matrix: WATER

Date Collected: 09-JUL-2008 09:40
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	1.58	mg/l	0.010	1	6020	0710 13:45	0711 22:14	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:14	BM
Arsenic, Total	0.0006	mg/l	0.0005	1	6020	0710 13:45	0711 22:14	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:14	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:14	BM
Chromium, Total	0.0032	mg/l	0.0005	1	6020	0710 13:45	0711 22:14	BM
Lead, Total	0.0020	mg/l	0.0005	1	6020	0710 13:45	0711 22:14	BM
Manganese, Total	0.4514	mg/l	0.0010	1	6020	0710 13:45	0711 22:14	BM
Sodium, Total	16	mg/l	2.0	1	6010B	0710 13:45	0719 10:29	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:14	BM
Vanadium, Total	0.0034	mg/l	0.0005	1	6020	0710 13:45	0711 22:14	BM
Zinc, Total	0.0818	mg/l	0.0050	1	6020	0710 13:45	0711 22:14	BM
Volatile Organics by GC/MS 8260				1	8260B		0710 13:13	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	2.4	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	0.87	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-01
MW-7DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 13:13	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	3.0	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	104	%	70-130					
Toluene-d8	98.0	%	70-130					
4-Bromofluorobenzene	101	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-01
MW-7DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 13:13	GK
Dibromofluoromethane	100	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 23:43	AK
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.7					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-01
MW-7DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0716 23:43	AK
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.7					
2,4-Dimethylphenol	ND	ug/l	9.7					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.7					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.7					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.7					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	33.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	63.0	%	23-120					
2-Fluorobiphenyl	62.0	%	43-120					
2,4,6-Tribromophenol	78.0	%	10-120					
4-Terphenyl-d14	94.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 23:43	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0717 00:13	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.77					
Hexachlorobenzene	ND	ug/l	0.77					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	79.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-01
MW-7DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0717 00:13	RL
2-Fluorobiphenyl	74.0	%	43-120					
2,4,6-Tribromophenol	99.0	%	10-120					
4-Terphenyl-d14	94.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-02
MW-7BR
Sample Matrix: WATER

Date Collected: 09-JUL-2008 09:45
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.045	mg/l	0.010	1	6020	0710 13:45	0711 22:53	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:53	BM
Arsenic, Total	0.0007	mg/l	0.0005	1	6020	0710 13:45	0711 22:53	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:53	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:53	BM
Chromium, Total	0.0016	mg/l	0.0005	1	6020	0710 13:45	0711 22:53	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:53	BM
Manganese, Total	0.0028	mg/l	0.0010	1	6020	0710 13:45	0711 22:53	BM
Sodium, Total	57	mg/l	2.0	1	6010B	0710 13:45	0719 11:12	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:53	BM
Vanadium, Total	0.0035	mg/l	0.0005	1	6020	0710 13:45	0711 22:53	BM
Zinc, Total	0.0127	mg/l	0.0050	1	6020	0710 13:45	0711 22:53	BM
Volatile Organics by GC/MS 8260				1	8260B		0710 13:46	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	1.4	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-02
MW-7BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 13:46	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	0.70	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	5.5	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	105	%	70-130					
Toluene-d8	98.0	%	70-130					
4-Bromofluorobenzene	102	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-02
MW-7BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 13:46	GK
Dibromofluoromethane	104	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 00:07	AK
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.7					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.7					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-02
MW-7BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0717 00:07	AK
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.7					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.7					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	28.0	%	21-120					
Phenol-d6	27.0	%	10-120					
Nitrobenzene-d5	61.0	%	23-120					
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	68.0	%	10-120					
4-Terphenyl-d14	84.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 00:07	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0717 00:59	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.76					
Hexachlorobenzene	ND	ug/l	0.76					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	29.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	78.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-02
MW-7BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0717 00:59	RL
2-Fluorobiphenyl	70.0	%	43-120					
2,4,6-Tribromophenol	78.0	%	10-120					
4-Terphenyl-d14	82.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-03
DUP-1
Sample Matrix: WATER

Date Collected: 09-JUL-2008 09:50
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.047	mg/l	0.010	1	6020	0710 13:45	0711 22:58	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:58	BM
Arsenic, Total	0.0007	mg/l	0.0005	1	6020	0710 13:45	0711 22:58	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:58	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:58	BM
Chromium, Total	0.0017	mg/l	0.0005	1	6020	0710 13:45	0711 22:58	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:58	BM
Manganese, Total	0.0030	mg/l	0.0010	1	6020	0710 13:45	0711 22:58	BM
Sodium, Total	57	mg/l	2.0	1	6010B	0710 13:45	0719 11:17	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:58	BM
Vanadium, Total	0.0035	mg/l	0.0005	1	6020	0710 13:45	0711 22:58	BM
Zinc, Total	0.0145	mg/l	0.0050	1	6020	0710 13:45	0711 22:58	BM
Volatile Organics by GC/MS 8260				1	8260B		0710 14:20	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	1.5	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-03
DUP-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 14:20	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	0.68	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	5.4	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	105	%	70-130					
Toluene-d8	98.0	%	70-130					
4-Bromofluorobenzene	104	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-03
DUP-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 14:20	GK
Dibromofluoromethane	103	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 00:32	AK
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.9					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.9					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-03
DUP-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0717 00:32	AK
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.9					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.9					
2,4-Dimethylphenol	ND	ug/l	9.9					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.9					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.9					
Phenol	ND	ug/l	6.9					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.9					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	19.0	%	21-120					
Phenol-d6	22.0	%	10-120					
Nitrobenzene-d5	59.0	%	23-120					
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	50.0	%	10-120					
4-Terphenyl-d14	85.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0717 12:20	0718 12:21	AK
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.7					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.7					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-03
DUP-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0717 12:20	0718 12:21	AK
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.7					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.7					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-03
DUP-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0717 12:20	0718 12:21	AK
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	56.0	%	21-120					
Phenol-d6	39.0	%	10-120					
Nitrobenzene-d5	79.0	%	23-120					
2-Fluorobiphenyl	75.0	%	43-120					
2,4,6-Tribromophenol	91.0	%	10-120					
4-Terphenyl-d14	79.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 00:32	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C				1	8270C	0717 12:20	0718 12:21	AK
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0717 01:46	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.79					
Hexachlorobenzene	ND	ug/l	0.79					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	17.0	%	21-120					
Phenol-d6	22.0	%	10-120					
Nitrobenzene-d5	76.0	%	23-120					
2-Fluorobiphenyl	65.0	%	43-120					
2,4,6-Tribromophenol	53.0	%	10-120					
4-Terphenyl-d14	73.0	%	33-120					
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0717 12:20	0718 13:58	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.76					
Hexachlorobenzene	ND	ug/l	0.76					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	63.0	%	21-120					
Phenol-d6	43.0	%	10-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-03
DUP-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0717 12:20	0718 13:58	RL
Nitrobenzene-d5	105	%	23-120					
2-Fluorobiphenyl	88.0	%	43-120					
2,4,6-Tribromophenol	110	%	10-120					
4-Terphenyl-d14	72.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-04
MW-13S
Sample Matrix: WATER

Date Collected: 09-JUL-2008 11:00
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.099	mg/l	0.010	1	6020	0710 13:45	0711 23:04	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:04	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:04	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:04	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:04	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:04	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:04	BM
Manganese, Total	0.1144	mg/l	0.0010	1	6020	0710 13:45	0711 23:04	BM
Sodium, Total	11	mg/l	2.0	1	6010B	0710 13:45	0719 10:59	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:04	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:04	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:45	0711 23:04	BM
Volatile Organics by GC/MS 8260				1	8260B		0710 14:53	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-04
MW-13S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 14:53	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	110	%	70-130					
Toluene-d8	93.0	%	70-130					
4-Bromofluorobenzene	101	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-04
MW-13S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 14:53	GK
Dibromofluoromethane	103	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 08:48	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-04
MW-13S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0717 08:48	AK
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	25.0	%	21-120					
Phenol-d6	20.0	%	10-120					
Nitrobenzene-d5	46.0	%	23-120					
2-Fluorobiphenyl	45.0	%	43-120					
2,4,6-Tribromophenol	61.0	%	10-120					
4-Terphenyl-d14	86.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 08:48	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0717 02:33	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	27.0	%	21-120					
Phenol-d6	21.0	%	10-120					
Nitrobenzene-d5	58.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-04
MW-13S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0717 02:33	RL
2-Fluorobiphenyl	50.0	%	43-120					
2,4,6-Tribromophenol	73.0	%	10-120					
4-Terphenyl-d14	81.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-05
DUP-2
Sample Matrix: WATER

Date Collected: 09-JUL-2008 11:10
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.104	mg/l	0.010	1	6020	0710 13:45	0711 23:10	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:10	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:10	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:10	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:10	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:10	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:10	BM
Manganese, Total	0.1217	mg/l	0.0010	1	6020	0710 13:45	0711 23:10	BM
Sodium, Total	11	mg/l	2.0	1	6010B	0710 13:45	0719 11:02	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:10	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:10	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:45	0711 23:10	BM
Volatile Organics by GC/MS 8260				1	8260B		0710 15:27	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-05
DUP-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 15:27	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	107	%	70-130					
Toluene-d8	97.0	%	70-130					
4-Bromofluorobenzene	100	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-05
DUP-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 15:27	GK
Dibromofluoromethane	103	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 09:13	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-05
DUP-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0717 09:13	AK
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	42.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	60.0	%	23-120					
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	82.0	%	10-120					
4-Terphenyl-d14	83.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 09:13	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0717 03:19	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	46.0	%	21-120					
Phenol-d6	31.0	%	10-120					
Nitrobenzene-d5	77.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-05
DUP-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0717 03:19	RL
2-Fluorobiphenyl	65.0	%	43-120					
2,4,6-Tribromophenol	104	%	10-120					
4-Terphenyl-d14	87.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-06
MW-3BR
Sample Matrix: WATER

Date Collected: 09-JUL-2008 12:20
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0710 13:45	0711 23:15	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:15	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:15	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:15	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:15	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:15	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:15	BM
Manganese, Total	0.1796	mg/l	0.0010	1	6020	0710 13:45	0711 23:15	BM
Sodium, Total	15	mg/l	2.0	1	6010B	0710 13:45	0719 11:05	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:15	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:15	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:45	0711 23:15	BM
Volatile Organics by GC/MS 8260				1	8260B		0710 16:01	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-06
MW-3BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 16:01	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	107	%	70-130					
Toluene-d8	98.0	%	70-130					
4-Bromofluorobenzene	102	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-06
MW-3BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 16:01	GK
Dibromofluoromethane	102	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 09:37	AK
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.9					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.9					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-06
MW-3BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0717 09:37	AK
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.9					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.9					
2,4-Dimethylphenol	ND	ug/l	9.9					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.9					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.9					
Phenol	ND	ug/l	6.9					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.9					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	42.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	61.0	%	23-120					
2-Fluorobiphenyl	60.0	%	43-120					
2,4,6-Tribromophenol	75.0	%	10-120					
4-Terphenyl-d14	88.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 09:37	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0717 04:06	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.79					
Hexachlorobenzene	ND	ug/l	0.79					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	46.0	%	21-120					
Phenol-d6	32.0	%	10-120					
Nitrobenzene-d5	81.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-06
MW-3BR

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0717 04:06	RL
2-Fluorobiphenyl	70.0	%	43-120					
2,4,6-Tribromophenol	95.0	%	10-120					
4-Terphenyl-d14	83.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-07
MW-3S
Sample Matrix: WATER

Date Collected: 09-JUL-2008 13:00
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0710 13:45	0711 23:21	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:21	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:21	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:21	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:21	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:21	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:21	BM
Manganese, Total	0.0016	mg/l	0.0010	1	6020	0710 13:45	0711 23:21	BM
Sodium, Total	11	mg/l	2.0	1	6010B	0710 13:45	0719 11:07	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:21	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:21	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:45	0711 23:21	BM
Volatile Organics by GC/MS 8260				1	8260B		0710 16:34	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-07
MW-3S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 16:34	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	105	%	70-130					
Toluene-d8	97.0	%	70-130					
4-Bromofluorobenzene	100	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-07
MW-3S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 16:34	GK
Dibromofluoromethane	102	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 10:02	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-07
MW-3S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0717 10:02	AK
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	38.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	59.0	%	23-120					
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	68.0	%	10-120					
4-Terphenyl-d14	87.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 10:02	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0717 04:52	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	43.0	%	21-120					
Phenol-d6	30.0	%	10-120					
Nitrobenzene-d5	78.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-07
MW-3S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0717 04:52	RL
2-Fluorobiphenyl	69.0	%	43-120					
2,4,6-Tribromophenol	89.0	%	10-120					
4-Terphenyl-d14	98.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-08
MW-06DO
Sample Matrix: WATER

Date Collected: 09-JUL-2008 00:00
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0710 13:45	0711 23:42	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:42	BM
Arsenic, Total	0.0007	mg/l	0.0005	1	6020	0710 13:45	0711 23:42	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:42	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:42	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:42	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:42	BM
Manganese, Total	1.273	mg/l	0.0010	1	6020	0710 13:45	0711 23:42	BM
Sodium, Total	18	mg/l	2.0	1	6010B	0710 13:45	0719 11:10	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:42	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:42	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:45	0711 23:42	BM
Volatile Organics by GC/MS 8260				1	8260B		0710 17:08	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	1.8	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	2.0	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-08
MW-06DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 17:08	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	16	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	0.51	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	4.2	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	104	%	70-130					
Toluene-d8	98.0	%	70-130					
4-Bromofluorobenzene	100	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-08
MW-06DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 17:08	GK
Dibromofluoromethane	105	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 10:26	AK
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.8					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-08
MW-06DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0717 10:26	AK
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.8					
2,4-Dimethylphenol	ND	ug/l	9.8					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.8					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.8					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.8					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	42.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	62.0	%	23-120					
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	88.0	%	10-120					
4-Terphenyl-d14	87.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 10:26	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0717 05:39	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	42.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	72.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-08
MW-06DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0717 05:39	RL
2-Fluorobiphenyl	64.0	%	43-120					
2,4,6-Tribromophenol	106	%	10-120					
4-Terphenyl-d14	84.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-09
FIELD BLANK-GW
Sample Matrix: WATER

Date Collected: 09-JUL-2008 12:45
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Amber,2-Plastic,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0710 13:45	0711 23:48	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:48	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:48	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:48	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:48	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:48	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:48	BM
Manganese, Total	0.0012	mg/l	0.0010	1	6020	0710 13:45	0711 23:48	BM
Sodium, Total	ND	mg/l	2.0	1	6010B	0710 13:45	0719 10:54	AI
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:48	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:48	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:45	0711 23:48	BM
Volatile Organics by GC/MS 8260				1	8260B		0710 17:41	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-09
FIELD BLANK-GW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 17:41	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	110	%	70-130					
Toluene-d8	97.0	%	70-130					
4-Bromofluorobenzene	102	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-09
FIELD BLANK-GW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 17:41	GK
Dibromofluoromethane	104	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 10:51	AK
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.7					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-09
FIELD BLANK-GW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0717 10:51	AK
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.7					
2,4-Dimethylphenol	ND	ug/l	9.7					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.7					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.7					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.7					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	39.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	59.0	%	23-120					
2-Fluorobiphenyl	58.0	%	43-120					
2,4,6-Tribromophenol	68.0	%	10-120					
4-Terphenyl-d14	89.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0717 10:51	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0717 06:26	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.77					
Hexachlorobenzene	ND	ug/l	0.77					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	76.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-09
FIELD BLANK-GW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0710 14:30	0717 06:26	RL
2-Fluorobiphenyl	66.0	%	43-120					
2,4,6-Tribromophenol	86.0	%	10-120					
4-Terphenyl-d14	93.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-10
SW-17
Sample Matrix: WATER

Date Collected: 09-JUL-2008 12:19
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 9-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:49	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0717 15:11	JL
Nitrogen, Nitrate	0.80	mg/l	0.10	30	4500NO3-F		0710 22:24	DD
Phosphorus, Total	0.057	mg/l	0.050	30	4500P-E		0714 17:44	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	3.5	mg/l	0.50	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	21	mg/l	0.66	1	6010B	0710 13:45	0719 11:15	AI
Total Metals								
Aluminum, Total	0.382	mg/l	0.010	1	6020	0710 13:45	0711 23:54	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:54	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:54	BM
Chromium, Total	0.0008	mg/l	0.0005	1	6020	0710 13:45	0711 23:54	BM
Copper, Total	0.0009	mg/l	0.0005	1	6020	0710 13:45	0711 23:54	BM
Iron, Total	4.17	mg/l	0.050	1	6020	0710 13:45	0711 23:54	BM
Lead, Total	0.0051	mg/l	0.0005	1	6020	0710 13:45	0711 23:54	BM
Manganese, Total	0.6650	mg/l	0.0010	1	6020	0710 13:45	0711 23:54	BM
Nickel, Total	0.0006	mg/l	0.0005	1	6020	0710 13:45	0711 23:54	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:54	BM
Zinc, Total	0.0098	mg/l	0.0050	1	6020	0710 13:45	0711 23:54	BM
Dissolved Metals								
Aluminum, Dissolved	0.022	mg/l	0.010	1	6020	0710 13:15	0711 20:35	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:35	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:35	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:35	BM
Copper, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:35	BM
Iron, Dissolved	0.329	mg/l	0.050	1	6020	0710 13:15	0711 20:35	BM
Lead, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:35	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-10
SW-17

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.3277	mg/l	0.0010	1	6020	0710 13:15	0711 20:35	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:35	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:35	BM
Zinc, Dissolved	0.0052	mg/l	0.0050	1	6020	0710 13:15	0711 20:35	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-11
SW FIELD BLANK
Sample Matrix: WATER

Date Collected: 09-JUL-2008 12:50
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 9-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:50	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0717 15:20	JL
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0710 22:25	DD
Phosphorus, Total	ND	mg/l	0.010	30	4500P-E		0714 17:44	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	ND	mg/l	0.50	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	ND	mg/l	0.66	1	6010B	0710 13:45	0719 10:57	AI
Total Metals								
Aluminum, Total	0.010	mg/l	0.010	1	6020	0710 13:45	0711 23:59	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:59	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:59	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:59	BM
Copper, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:59	BM
Iron, Total	ND	mg/l	0.050	1	6020	0710 13:45	0711 23:59	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:59	BM
Manganese, Total	ND	mg/l	0.0010	1	6020	0710 13:45	0711 23:59	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:59	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 23:59	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:45	0711 23:59	BM
Dissolved Metals								
Aluminum, Dissolved	ND	mg/l	0.010	1	6020	0710 13:15	0711 20:57	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:57	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:57	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:57	BM
Copper, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:57	BM
Iron, Dissolved	ND	mg/l	0.050	1	6020	0710 13:15	0711 20:57	BM
Lead, Dissolved	0.0007	mg/l	0.0005	1	6020	0710 13:15	0711 20:57	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-11
SW FIELD BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	ND	mg/l	0.0010	1	6020	0710 13:15	0711 20:57	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:57	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:57	BM
Zinc, Dissolved	ND	mg/l	0.0050	1	6020	0710 13:15	0711 20:57	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810112-12
TRIP BLANK
Sample Matrix: WATER

Date Collected: 30-JUN-2008 18:15
Date Received : 09-JUL-2008
Date Reported : 21-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1	8260B		0711 11:17	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810112-12
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0711 11:17	GK
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	107	%	70-130					
Toluene-d8	99.0	%	70-130					
4-Bromofluorobenzene	103	%	70-130					
Dibromofluoromethane	102	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0810112

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Nitrogen, Ammonia for sample(s) 10-11 (L0810443-03, WG329424-3)					
Nitrogen, Ammonia	ND	ND	mg/l	NC	20
Nitrogen, Nitrate for sample(s) 10-11 (L0810193-04, WG328671-4)					
Nitrogen, Nitrate	0.91	0.92	mg/l	1	6
Phosphorus, Total for sample(s) 10-11 (L0810254-05, WG328998-3)					
Phosphorus, Total	0.046	0.044	mg/l	4	20
Sulfide for sample(s) 10-11 (L0810193-03, WG329037-5)					
Sulfide	ND	ND	mg/l	NC	
Total Organic Carbon for sample(s) 10-11 (L0810193-04, WG329391-4)					
Total Organic Carbon	3.5	3.7	mg/l	6	20
Total Metals for sample(s) 01-11 (L0810112-01, WG328636-1)					
Sodium, Total	16	16	mg/l	0	20
Total Metals for sample(s) 01-11 (L0810112-01, WG328637-1)					
Aluminum, Total	1.58	1.34	mg/l	16	20
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	0.0006	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	0.0032	0.0026	mg/l	19	20
Lead, Total	0.0020	0.0018	mg/l	13	20
Manganese, Total	0.4514	0.4902	mg/l	8	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	0.0034	0.0031	mg/l	11	20
Zinc, Total	0.0818	0.0767	mg/l	6	20
Dissolved Metals for sample(s) 10-11 (L0810112-10, WG328635-1)					
Aluminum, Dissolved	0.022	0.023	mg/l	2	20
Arsenic, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	0.329	0.328	mg/l	0	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Manganese, Dissolved	0.3277	0.3312	mg/l	1	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.0052	0.0056	mg/l	6	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0810112

Parameter	% Recovery	QC Criteria
Cyanide, Total LCS for sample(s) 10-11 (WG329122-2)		
Cyanide, Total	104	80-120
Nitrogen, Ammonia LCS for sample(s) 10-11 (WG329424-2)		
Nitrogen, Ammonia	102	80-120
Nitrogen, Nitrate LCS for sample(s) 10-11 (WG328671-1)		
Nitrogen, Nitrate	102	90-110
Phosphorus, Total LCS for sample(s) 10-11 (WG328998-2)		
Phosphorus, Total	98	85-115
Sulfide LCS for sample(s) 10-11 (WG329037-2)		
Sulfide	90	
Total Organic Carbon LCS for sample(s) 10-11 (WG329391-2)		
Total Organic Carbon	100	90-110
Total Hardness by SM 2340B LCS for sample(s) 01-11 (WG328636-4)		
Hardness	94	80-120
Total Metals LCS for sample(s) 01-11 (WG328636-4)		
Sodium, Total	100	80-120
Total Metals LCS for sample(s) 01-11 (WG328637-4)		
Aluminum, Total	88	80-120
Antimony, Total	92	80-120
Arsenic, Total	90	80-120
Beryllium, Total	100	80-120
Cadmium, Total	97	80-120
Chromium, Total	95	80-120
Copper, Total	94	80-120
Iron, Total	119	80-120
Lead, Total	98	80-120
Manganese, Total	95	80-120
Nickel, Total	94	80-120
Silver, Total	93	80-120
Thallium, Total	92	80-120
Vanadium, Total	93	80-120
Zinc, Total	95	80-120
Dissolved Metals LCS for sample(s) 10-11 (WG328635-4)		
Aluminum, Dissolved	88	80-120
Arsenic, Dissolved	89	80-120
Cadmium, Dissolved	96	80-120
Chromium, Dissolved	95	80-120
Copper, Dissolved	96	80-120
Iron, Dissolved	105	80-120
Lead, Dissolved	99	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0810112

Continued

Parameter	% Recovery	QC Criteria
Dissolved Metals LCS for sample(s) 10-11 (WG328635-4)		
Manganese, Dissolved	94	80-120
Nickel, Dissolved	96	80-120
Silver, Dissolved	96	80-120
Zinc, Dissolved	97	80-120
Nitrogen, Ammonia SPIKE for sample(s) 10-11 (L0810443-03, WG329424-4)		
Nitrogen, Ammonia	96	75-125
Nitrogen, Nitrate SPIKE for sample(s) 10-11 (L0810193-04, WG328671-3)		
Nitrogen, Nitrate	102	83-120
Phosphorus, Total SPIKE for sample(s) 10-11 (L0810254-06, WG328998-4)		
Phosphorus, Total	98	80-120
Total Organic Carbon SPIKE for sample(s) 10-11 (L0810193-04, WG329391-3)		
Total Organic Carbon	116	80-120
Total Hardness by SM 2340B SPIKE for sample(s) 01-11 (L0810112-01, WG328636-2)		
Hardness	86	75-125
Total Metals SPIKE for sample(s) 01-11 (L0810112-01, WG328636-2)		
Sodium, Total	90	75-125
Total Metals SPIKE for sample(s) 01-11 (L0810112-01, WG328637-2)		
Aluminum, Total	100	80-120
Antimony, Total	84	80-120
Arsenic, Total	88	80-120
Beryllium, Total	93	80-120
Cadmium, Total	89	80-120
Chromium, Total	83	80-120
Copper, Total	86	80-120
Iron, Total	0	80-120
Lead, Total	90	80-120
Manganese, Total	90	80-120
Nickel, Total	86	80-120
Silver, Total	86	80-120
Thallium, Total	85	80-120
Vanadium, Total	84	80-120
Zinc, Total	84	80-120
Dissolved Metals SPIKE for sample(s) 10-11 (L0810112-10, WG328635-2)		
Aluminum, Dissolved	92	80-120
Arsenic, Dissolved	101	80-120
Cadmium, Dissolved	105	80-120
Chromium, Dissolved	101	80-120
Copper, Dissolved	103	80-120
Iron, Dissolved	115	80-120
Lead, Dissolved	107	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0810112

Continued

Parameter	% Recovery	QC Criteria
Dissolved Metals SPIKE for sample(s) 10-11 (L0810112-10, WG328635-2)		
Manganese, Dissolved	104	80-120
Nickel, Dissolved	102	80-120
Silver, Dissolved	100	80-120
Zinc, Dissolved	102	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810112

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-09 (WG328720-1, WG328720-2)					
Methylene chloride	104	112	7	20	70-130
1,1-Dichloroethane	95	97	2	20	70-130
Chloroform	99	102	3	20	70-130
Carbon tetrachloride	87	92	6	20	70-130
1,2-Dichloropropane	93	96	3	20	70-130
Dibromochloromethane	89	92	3	20	70-130
1,1,2-Trichloroethane	90	94	4	20	70-130
Tetrachloroethene	94	96	2	20	70-130
Chlorobenzene	94	95	1	20	75-130
Trichlorofluoromethane	106	112	6	20	70-130
1,2-Dichloroethane	99	104	5	20	70-130
1,1,1-Trichloroethane	95	98	3	20	70-130
Bromodichloromethane	95	99	4	20	70-130
trans-1,3-Dichloropropene	80	84	5	20	70-130
cis-1,3-Dichloropropene	89	93	4	20	70-130
1,1-Dichloropropene	92	97	5	20	70-130
Bromoform	71	76	7	20	70-130
1,1,2,2-Tetrachloroethane	90	95	5	20	70-130
Benzene	93	96	3	20	76-127
Toluene	94	96	2	20	76-125
Ethylbenzene	96	97	1	20	70-130
Chloromethane	86	90	5	20	70-130
Bromomethane	91	96	5	20	70-130
Vinyl chloride	88	92	4	20	70-130
Chloroethane	93	98	5	20	70-130
1,1-Dichloroethene	95	102	7	20	61-145
trans-1,2-Dichloroethene	92	97	5	20	70-130
Trichloroethene	93	97	4	20	71-120
1,2-Dichlorobenzene	94	95	1	20	70-130
1,3-Dichlorobenzene	94	95	1	20	70-130
1,4-Dichlorobenzene	95	95	0	20	70-130
Methyl tert butyl ether	89	97	9	20	70-130
p/m-Xylene	95	97	2	20	70-130
o-Xylene	94	94	0	20	70-130
cis-1,2-Dichloroethene	95	96	1	20	70-130
Dibromomethane	94	101	7	20	70-130
1,2,3-Trichloropropane	103	106	3	20	70-130
Styrene	94	95	1	20	70-130
Dichlorodifluoromethane	99	101	2	20	70-130
Acetone	83	85	2	20	70-130
Carbon disulfide	80	82	2	20	70-130
2-Butanone	85	98	14	20	70-130
4-Methyl-2-pentanone	90	107	17	20	70-130
2-Hexanone	89	95	7	20	70-130
Bromochloromethane	96	100	4	20	70-130
Tetrahydrofuran	85	98	14	20	70-130
2,2-Dichloropropane	95	100	5	20	70-130
1,2-Dibromoethane	91	97	6	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810112

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-09 (WG328720-1, WG328720-2)					
1,3-Dichloropropane	90	93	3	20	70-130
1,1,1,2-Tetrachloroethane	85	86	1	20	70-130
Bromobenzene	93	94	1	20	70-130
n-Butylbenzene	95	99	4	20	70-130
sec-Butylbenzene	98	101	3	20	70-130
tert-Butylbenzene	96	98	2	20	70-130
o-Chlorotoluene	101	100	1	20	70-130
p-Chlorotoluene	98	96	2	20	70-130
1,2-Dibromo-3-chloropropane	76	86	12	20	70-130
Hexachlorobutadiene	91	100	9	20	70-130
Isopropylbenzene	115	115	0	20	70-130
p-Isopropyltoluene	99	103	4	20	70-130
Naphthalene	80	83	4	20	70-130
n-Propylbenzene	96	98	2	20	70-130
1,2,3-Trichlorobenzene	91	94	3	20	70-130
1,2,4-Trichlorobenzene	88	92	4	20	70-130
1,3,5-Trimethylbenzene	97	97	0	20	70-130
1,2,4-Trimethylbenzene	96	96	0	20	70-130
Ethyl ether	88	95	8	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	102	106	4		70-130
Toluene-d8	99	98	1		70-130
4-Bromofluorobenzene	102	101	1		70-130
Dibromofluoromethane	99	102	3		70-130
Volatile Organics by GC/MS 8260 for sample(s) 12 (WG328720-4, WG328720-5)					
Methylene chloride	104	95	9	20	70-130
1,1-Dichloroethane	103	99	4	20	70-130
Chloroform	106	100	6	20	70-130
Carbon tetrachloride	109	106	3	20	70-130
1,2-Dichloropropane	102	94	8	20	70-130
Dibromochloromethane	96	97	1	20	70-130
1,1,2-Trichloroethane	94	95	1	20	70-130
Tetrachloroethene	102	100	2	20	70-130
Chlorobenzene	102	98	4	20	75-130
Trichlorofluoromethane	122	115	6	20	70-130
1,2-Dichloroethane	111	104	7	20	70-130
1,1,1-Trichloroethane	106	101	5	20	70-130
Bromodichloromethane	105	99	6	20	70-130
trans-1,3-Dichloropropene	92	90	2	20	70-130
cis-1,3-Dichloropropene	97	91	6	20	70-130
1,1-Dichloropropene	104	98	6	20	70-130
Bromoform	84	85	1	20	70-130
1,1,2,2-Tetrachloroethane	93	92	1	20	70-130
Benzene	102	97	5	20	76-127
Toluene	100	97	3	20	76-125

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810112

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 12 (WG328720-4, WG328720-5)					
Ethylbenzene	104	102	2	20	70-130
Chloromethane	96	94	2	20	70-130
Bromomethane	122	110	10	20	70-130
Vinyl chloride	99	98	1	20	70-130
Chloroethane	118	110	7	20	70-130
1,1-Dichloroethene	106	102	4	20	61-145
trans-1,2-Dichloroethene	107	100	7	20	70-130
Trichloroethene	104	97	7	20	71-120
1,2-Dichlorobenzene	102	99	3	20	70-130
1,3-Dichlorobenzene	103	102	1	20	70-130
1,4-Dichlorobenzene	104	101	3	20	70-130
Methyl tert butyl ether	95	89	7	20	70-130
p/m-Xylene	106	102	4	20	70-130
o-Xylene	104	101	3	20	70-130
cis-1,2-Dichloroethene	102	95	7	20	70-130
Dibromomethane	102	95	7	20	70-130
1,2,3-Trichloropropane	104	100	4	20	70-130
Styrene	106	101	5	20	70-130
Dichlorodifluoromethane	103	97	6	20	70-130
Acetone	90	78	14	20	70-130
Carbon disulfide	91	86	6	20	70-130
2-Butanone	87	87	0	20	70-130
4-Methyl-2-pentanone	90	88	2	20	70-130
2-Hexanone	85	85	0	20	70-130
Bromochloromethane	102	99	3	20	70-130
Tetrahydrofuran	96	94	2	20	70-130
2,2-Dichloropropane	113	108	5	20	70-130
1,2-Dibromoethane	96	93	3	20	70-130
1,3-Dichloropropane	97	95	2	20	70-130
1,1,1,2-Tetrachloroethane	101	98	3	20	70-130
Bromobenzene	101	98	3	20	70-130
n-Butylbenzene	106	105	1	20	70-130
sec-Butylbenzene	105	104	1	20	70-130
tert-Butylbenzene	103	102	1	20	70-130
o-Chlorotoluene	106	105	1	20	70-130
p-Chlorotoluene	105	105	0	20	70-130
1,2-Dibromo-3-chloropropane	88	97	10	20	70-130
Hexachlorobutadiene	96	103	7	20	70-130
Isopropylbenzene	121	121	0	20	70-130
p-Isopropyltoluene	107	107	0	20	70-130
Naphthalene	90	90	0	20	70-130
n-Propylbenzene	104	104	0	20	70-130
1,2,3-Trichlorobenzene	95	96	1	20	70-130
1,2,4-Trichlorobenzene	95	95	0	20	70-130
1,3,5-Trimethylbenzene	104	103	1	20	70-130
1,2,4-Trimethylbenzene	104	102	2	20	70-130
Ethyl ether	95	92	3	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810112

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 12 (WG328720-4, WG328720-5)					
Surrogate(s)					
1,2-Dichloroethane-d4	108	107	1		70-130
Toluene-d8	100	100	0		70-130
4-Bromofluorobenzene	98	101	3		70-130
Dibromofluoromethane	104	101	3		70-130
Semivolatile Organics by EPA 8270C for sample(s) 01-09 (WG328595-2, WG328595-3)					
Acenaphthene	67	58	14	30	46-118
1,2,4-Trichlorobenzene	61	48	24	30	39-98
2-Chloronaphthalene	67	57	16	30	40-140
1,2-Dichlorobenzene	62	47	28	30	40-140
1,4-Dichlorobenzene	58	45	25	30	36-97
2,4-Dinitrotoluene	83	74	11	30	24-96
2,6-Dinitrotoluene	86	77	11	30	40-140
Fluoranthene	93	87	7	30	40-140
4-Chlorophenyl phenyl ether	72	62	15	30	40-140
n-Nitrosodi-n-propylamine	61	52	16	30	41-116
Butyl benzyl phthalate	91	86	6	30	40-140
Anthracene	76	69	10	30	40-140
Pyrene	86	81	6	30	26-127
P-Chloro-M-Cresol	73	62	16	30	23-97
2-Chlorophenol	69	56	21	30	27-123
2-Nitrophenol	78	65	18	30	30-130
4-Nitrophenol	39	36	8	30	10-80
2,4-Dinitrophenol	88	82	7	30	30-130
Pentachlorophenol	101	87	15	30	9-103
Phenol	34	28	19	30	12-110
Surrogate(s)					
2-Fluorophenol	50	42	17		21-120
Phenol-d6	35	29	19		10-120
Nitrobenzene-d5	74	63	16		23-120
2-Fluorobiphenyl	64	58	10		43-120
2,4,6-Tribromophenol	86	74	15		10-120
4-Terphenyl-d14	84	79	6		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 01-09 (WG328594-2, WG328594-3)					
Pentachlorophenol	74	85	14		30-130
Surrogate(s)					
2-Fluorophenol	38	44	15		21-120
Phenol-d6	27	30	11		10-120
Nitrobenzene-d5	65	74	13		23-120
2-Fluorobiphenyl	57	68	18		43-120
2,4,6-Tribromophenol	76	86	12		10-120
4-Terphenyl-d14	67	87	26		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0810112

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Cyanide, Total for sample(s) 10-11 (L0810193-04, WG329122-4)					
Cyanide, Total	108	106	2	30	80-120
Sulfide for sample(s) 10-11 (L0810193-04, WG329037-4)					
Sulfide	87	87	0		
Semivolatile Organics by EPA 8270C for sample(s) 01-09 (L0810010-04, WG328595-5)					
Acenaphthene	62	67	8	30	46-118
1,2,4-Trichlorobenzene	58	62	7	30	39-98
2-Chloronaphthalene	58	67	14	30	40-140
1,2-Dichlorobenzene	53	62	16	30	40-140
1,4-Dichlorobenzene	53	58	9	30	36-97
2,4-Dinitrotoluene	77	86	11	30	24-96
2,6-Dinitrotoluene	82	91	10	30	40-140
Fluoranthene	82	96	16	30	40-140
4-Chlorophenyl phenyl ether	67	77	14	30	40-140
n-Nitrosodi-n-propylamine	48	58	19	30	41-116
Butyl benzyl phthalate	82	96	16	30	40-140
Anthracene	67	77	14	30	40-140
Pyrene	77	91	17	30	26-127
P-Chloro-M-Cresol	70	79	12	30	23-97
2-Chlorophenol	58	67	14	30	27-123
2-Nitrophenol	65	72	10	30	30-130
4-Nitrophenol	58	67	14	30	10-80
2,4-Dinitrophenol	82	96	16	30	30-130
Pentachlorophenol	89	110	21	30	9-103
Phenol	43	48	11	30	12-110
Surrogate(s)					
2-Fluorophenol	52	58	11		21-120
Phenol-d6	45	48	6		10-120
Nitrobenzene-d5	60	67	11		23-120
2-Fluorobiphenyl	58	63	8		43-120
2,4,6-Tribromophenol	74	91	21		10-120
4-Terphenyl-d14	72	83	14		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 01-09 (L0810010-04, WG328594-5)					
Pentachlorophenol	91	91	0	40	30-130
Surrogate(s)					
2-Fluorophenol	59	53	11		21-120
Phenol-d6	51	44	15		10-120
Nitrobenzene-d5	89	83	7		23-120
2-Fluorobiphenyl	68	61	11		43-120
2,4,6-Tribromophenol	87	84	4		10-120
4-Terphenyl-d14	87	83	5		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810112

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 10-11 (WG329122-1)								
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:40	DD
Blank Analysis for sample(s) 10-11 (WG329424-1)								
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0717 13:41	JL
Blank Analysis for sample(s) 10-11 (WG328671-2)								
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0710 22:09	DD
Blank Analysis for sample(s) 10-11 (WG328998-1)								
Phosphorus, Total	ND	mg/l	0.010	30	4500P-E		0714 17:42	NM
Blank Analysis for sample(s) 10-11 (WG329037-1)								
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Blank Analysis for sample(s) 10-11 (WG329391-1)								
Total Organic Carbon	ND	mg/l	0.50	1	9060		0716 14:08	DW
Blank Analysis for sample(s) 01-11 (WG328636-3)								
Total Hardness by SM 2340B								
Hardness	ND	mg/l	0.66	1	6010B	0710 13:45	0719 10:21	AI
Blank Analysis for sample(s) 01-11 (WG328636-3)								
Total Metals								
Sodium, Total	ND	mg/l	2.0	1	6010B	0710 13:45	0719 10:21	AI
Blank Analysis for sample(s) 01-11 (WG328637-3)								
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0710 13:45	0711 22:03	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Copper, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Iron, Total	ND	mg/l	0.050	1	6020	0710 13:45	0711 22:03	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Manganese, Total	ND	mg/l	0.0010	1	6020	0710 13:45	0711 22:03	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810112

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-11 (WG328637-3)								
Total Metals								
Silver, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Thallium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0710 13:45	0711 22:03	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0710 13:45	0711 22:03	BM
Blank Analysis for sample(s) 10-11 (WG328635-3)								
Dissolved Metals								
Aluminum, Dissolved	ND	mg/l	0.010	1	6020	0710 13:15	0711 20:24	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:24	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:24	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:24	BM
Copper, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:24	BM
Iron, Dissolved	ND	mg/l	0.050	1	6020	0710 13:15	0711 20:24	BM
Lead, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:24	BM
Manganese, Dissolved	ND	mg/l	0.0010	1	6020	0710 13:15	0711 20:24	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:24	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0710 13:15	0711 20:24	BM
Zinc, Dissolved	ND	mg/l	0.0050	1	6020	0710 13:15	0711 20:24	BM
Blank Analysis for sample(s) 01-09 (WG328720-3)								
Volatile Organics by GC/MS 8260				1	8260B		0710 10:26	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810112

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-09 (WG328720-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 10:26	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810112

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-09 (WG328720-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0710 10:26	GK
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	105	%	70-130					
Toluene-d8	98.0	%	70-130					
4-Bromofluorobenzene	99.0	%	70-130					
Dibromofluoromethane	103	%	70-130					
Blank Analysis for sample(s) 12 (WG328720-6)								
Volatile Organics by GC/MS 8260				1	8260B		0711 10:44	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810112

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 12 (WG328720-6)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0711 10:44	GK
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	103	%	70-130					
Toluene-d8	96.0	%	70-130					
4-Bromofluorobenzene	103	%	70-130					
Dibromofluoromethane	98.0	%	70-130					
Blank Analysis for sample(s) 01-09 (WG328595-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 17:51	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810112

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-09 (WG328595-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0716 17:51	AK
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810112

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-09 (WG328595-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0710 14:30	0716 17:51	AK
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	58.0	%	23-120					
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	72.0	%	10-120					
4-Terphenyl-d14	77.0	%	33-120					
Blank Analysis for sample(s) 01-09 (WG328595-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0710 14:30	0716 17:51	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Blank Analysis for sample(s) 01-09 (WG328594-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0710 14:30	0716 10:58	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	46.0	%	21-120					
Phenol-d6	32.0	%	10-120					
Nitrobenzene-d5	72.0	%	23-120					
2-Fluorobiphenyl	64.0	%	43-120					
2,4,6-Tribromophenol	92.0	%	10-120					
4-Terphenyl-d14	92.0	%	33-120					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 7/9/08

ALPHA Job #: L0810112

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Louis Berger Group
Address: 295 Promenade St
Providence, RI 02908
Phone: (401) 521-5980
Fax:
Email: dgoney@louisbergerco.com
❑ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S. Kingstown, RI
Project #: J1-1747
Project Manager: Chris Feeley
ALPHA Quote #:

Turn-Around Time

❑ Standard ❑ RUSH (only confirmed if pre-approved!)
Date Due: 7/10/08 Time:

Report Information - Data Deliverables

❑ FAX ❑ EMAIL
❑ ADEx ❑ Add'l Deliverables

Billing Information

❑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

❑ Yes ❑ No Are MCP Analytical Methods Required?
❑ Yes ❑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING
Filtration
❑ Done
❑ Not needed
❑ Lab to do
Preservation
❑ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: SVOC-8270	VOCs-8260	Total Metals	Sample Specific Comments	TOTAL # BOTTLES
10112-01	MW-7DD	7/9/08	9:40	GW	SH	2	2	1		5
-02	MW-7BR		9:45							
-03	Dup-1		9:50							
-04	MW-13DD		11:00							
-05	Dup-2		11:10							
-06	MW-3BR		12:20							
-07	MW-3S		1:00							
-08	MW-06DD									
-09	Field Blank-GW		12:45							

Container Type	A	V	P
Preservative	A	B	C

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Gilbert	7/9/08 15:35	Paul Gilbert	7/9/08 15:40
Paul Gilbert	7/9/08 1735	[illegible signature]	7/9/08 1735

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 7/9/08

ALPHA Job #: L0810112

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3238

Client Information

Client: Louis Berger Group, Inc.

Address: 295 Promenade St. Providence, RI 02908

Phone: (401) 521-5980

Fax:

Email: dgoney@louisberger.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill

Project Location: S. Kingstown, RI

Project #: 51-1747

Project Manager: Chris Feeny

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 7/18/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOC, TCN, NH_3, TPHs, Metals, Dissolved Metals (LF), Hardness, Sulfide, TOC

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do

(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	TCN	NH_3	TPHs	Metals	Dissolved Metals (LF)	Hardness	Sulfide	TOC	Sample Specific Comments	TOTAL # BOTTLES
10112-10	SW-17	7/9/08	12:19	SW	SA	1	1	1	1	1	1	2	1			9
-11	SW Field Blank	7/9/08	12:50	SW	SA	1	1	1	1	1	1	2	1			9

Container Type	P	P	P	P	P	P	P	✓
Preservative	A	E	D	C	A	C	HE	D

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Gilbert	7/9/08 15:37	Paul Gilbert	7/9/08 15:40
	7/9/08 1735	[illegible]	7/9/08 15:40 1735

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Louis A. Berger & Associates, Inc.

Address: 295 Promenade Street
Providence, RI 02908

Attn: Mr. Chris Feeney

Project Number: JI-1747

Laboratory Job Number: L0810193

Date Received: 10-JUL-2008

Date Reported: 18-JUL-2008

Delivery Method: Alpha

Site: ROSE HILL LANDFILL

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0810193-01	SW-2	SOUTH KINGSTOWN, RI
L0810193-02	SW-1	SOUTH KINGSTOWN, RI
L0810193-03	SW-13	SOUTH KINGSTOWN, RI
L0810193-04	SW-4	SOUTH KINGSTOWN, RI
L0810193-05	SW-9	SOUTH KINGSTOWN, RI
L0810193-06	DUP	SOUTH KINGSTOWN, RI
L0810193-07	SW-6	SOUTH KINGSTOWN, RI
L0810193-08	SW-12	SOUTH KINGSTOWN, RI
L0810193-09	MW-12S	SOUTH KINGSTOWN, RI
L0810193-10	MW-12DO	SOUTH KINGSTOWN, RI
L0810193-11	SW-4 (EXTRA VOLUME)	SOUTH KINGSTOWN, RI

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Michelle M. Morris
Technical Representative

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0810193

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

L0810193-08 was received below the appropriate pH for the Sulfide analysis. The laboratory added additional NaOH to a pH >12.

A container for Total Cyanide was received for samples L0810193-01 through -08, but not listed on the Chain of Custody. At the client's request, these samples were analyzed.

TOC

L0810193-02 has an elevated detection limit due to the 2x dilution required by the elevated concentration present in the sample.

Semivolatile Organics

The surrogate recoveries for L0810193-10 were below the acceptance criteria for 2-Fluorophenol and Phenol-d6; however, re-extraction achieved similar results. The results of both extractions are reported.

L0810193-09, -10 and the WG328851-1 Method Blank: N,N-Dimethylformamide was not detected as a TIC.

Semivolatile Organics-SIM

The surrogate recoveries for L0810193-10 were below the acceptance criteria for 2-Fluorophenol and Phenol-d6; however, re-extraction achieved similar results. The results of both extractions are reported.

Metals

The WG328770-1 Laboratory Duplicate RPD for Dissolved Copper, associated with L0810193-01 through -08, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

The WG328774-3 MS/MSD RPD, associated with L0810193-01 through -10, is above the acceptance criteria for Total Iron. The results of the associated samples are reported.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-01
SW-2
Sample Matrix: WATER

Date Collected: 10-JUL-2008 09:06
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:50	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0716 14:17	JL
Nitrogen, Nitrate	0.87	mg/l	0.10	30	4500NO3-F		0710 22:25	DD
Phosphorus, Total	0.026	mg/l	0.010	30	4500P-E		0712 15:59	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	2.8	mg/l	0.50	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	21	mg/l	0.66	1	6010B	0711 12:00	0718 09:06	MG
Total Metals								
Aluminum, Total	0.076	mg/l	0.010	1	6020	0711 12:00	0714 19:22	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:22	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:22	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:22	BM
Copper, Total	0.0007	mg/l	0.0005	1	6020	0711 12:00	0714 19:22	BM
Iron, Total	0.275	mg/l	0.050	1	6020	0711 12:00	0714 19:22	BM
Lead, Total	0.0006	mg/l	0.0005	1	6020	0711 12:00	0714 19:22	BM
Manganese, Total	0.0311	mg/l	0.0010	1	6020	0711 12:00	0714 19:22	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:22	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:22	BM
Zinc, Total	0.0079	mg/l	0.0050	1	6020	0711 12:00	0714 19:22	BM
Dissolved Metals								
Aluminum, Dissolved	0.036	mg/l	0.010	1	6020	0711 12:00	0714 17:21	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:21	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:21	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:21	BM
Copper, Dissolved	0.0006	mg/l	0.0005	1	6020	0711 12:00	0714 17:21	BM
Iron, Dissolved	0.160	mg/l	0.050	1	6020	0711 12:00	0714 17:21	BM
Lead, Dissolved	0.0006	mg/l	0.0005	1	6020	0711 12:00	0714 17:21	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-01
SW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0220	mg/l	0.0010	1	6020	0711 12:00	0714 17:21	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:21	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:21	BM
Zinc, Dissolved	ND	mg/l	0.0050	1	6020	0711 12:00	0714 17:21	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-02
SW-1
Sample Matrix: WATER

Date Collected: 10-JUL-2008 09:17
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:51	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0716 14:25	JL
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0710 22:26	DD
Phosphorus, Total	0.083	mg/l	0.010	30	4500P-E		0712 15:59	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	10	mg/l	1.0	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	13	mg/l	0.66	1	6010B	0711 12:00	0718 09:08	MG
Total Metals								
Aluminum, Total	0.118	mg/l	0.010	1	6020	0711 12:00	0714 19:28	BM
Arsenic, Total	0.0026	mg/l	0.0005	1	6020	0711 12:00	0714 19:28	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:28	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:28	BM
Copper, Total	0.0017	mg/l	0.0005	1	6020	0711 12:00	0714 19:28	BM
Iron, Total	3.44	mg/l	0.050	1	6020	0711 12:00	0714 19:28	BM
Lead, Total	0.0608	mg/l	0.0005	1	6020	0711 12:00	0714 19:28	BM
Manganese, Total	0.2250	mg/l	0.0010	1	6020	0711 12:00	0714 19:28	BM
Nickel, Total	0.0010	mg/l	0.0005	1	6020	0711 12:00	0714 19:28	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:28	BM
Zinc, Total	0.0368	mg/l	0.0050	1	6020	0711 12:00	0714 19:28	BM
Dissolved Metals								
Aluminum, Dissolved	0.034	mg/l	0.010	1	6020	0711 12:00	0714 17:43	BM
Arsenic, Dissolved	0.0018	mg/l	0.0005	1	6020	0711 12:00	0714 17:43	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:43	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:43	BM
Copper, Dissolved	0.0012	mg/l	0.0005	1	6020	0711 12:00	0714 17:43	BM
Iron, Dissolved	1.45	mg/l	0.050	1	6020	0711 12:00	0714 17:43	BM
Lead, Dissolved	0.0138	mg/l	0.0005	1	6020	0711 12:00	0714 17:43	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-02
SW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.1317	mg/l	0.0010	1	6020	0711 12:00	0714 17:43	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:43	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:43	BM
Zinc, Dissolved	0.0085	mg/l	0.0050	1	6020	0711 12:00	0714 17:43	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-03
SW-13
Sample Matrix: WATER

Date Collected: 10-JUL-2008 09:35
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:52	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0716 14:35	JL
Nitrogen, Nitrate	0.20	mg/l	0.10	30	4500NO3-F		0710 22:27	DD
Phosphorus, Total	0.044	mg/l	0.010	30	4500P-E		0712 16:00	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	6.8	mg/l	0.50	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	9.7	mg/l	0.66	1	6010B	0711 12:00	0718 09:10	MG
Total Metals								
Aluminum, Total	0.238	mg/l	0.010	1	6020	0711 12:00	0714 19:33	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:33	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:33	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:33	BM
Copper, Total	0.0009	mg/l	0.0005	1	6020	0711 12:00	0714 19:33	BM
Iron, Total	0.490	mg/l	0.050	1	6020	0711 12:00	0714 19:33	BM
Lead, Total	0.0009	mg/l	0.0005	1	6020	0711 12:00	0714 19:33	BM
Manganese, Total	0.0450	mg/l	0.0010	1	6020	0711 12:00	0714 19:33	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:33	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:33	BM
Zinc, Total	0.0122	mg/l	0.0050	1	6020	0711 12:00	0714 19:33	BM
Dissolved Metals								
Aluminum, Dissolved	0.122	mg/l	0.010	1	6020	0711 12:00	0714 17:49	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:49	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:49	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:49	BM
Copper, Dissolved	0.0012	mg/l	0.0005	1	6020	0711 12:00	0714 17:49	BM
Iron, Dissolved	0.263	mg/l	0.050	1	6020	0711 12:00	0714 17:49	BM
Lead, Dissolved	0.0007	mg/l	0.0005	1	6020	0711 12:00	0714 17:49	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-03
SW-13

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.0119	mg/l	0.0010	1	6020	0711 12:00	0714 17:49	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:49	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:49	BM
Zinc, Dissolved	0.0074	mg/l	0.0050	1	6020	0711 12:00	0714 17:49	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-04
SW-4
Sample Matrix: WATER

Date Collected: 10-JUL-2008 11:40
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:53	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0716 14:43	JL
Nitrogen, Nitrate	0.91	mg/l	0.10	30	4500NO3-F		0710 22:28	DD
Phosphorus, Total	0.029	mg/l	0.010	30	4500P-E		0712 16:01	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	3.5	mg/l	0.50	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	22	mg/l	0.66	1	6010B	0711 12:00	0718 09:15	MG
Total Metals								
Aluminum, Total	0.096	mg/l	0.010	1	6020	0711 12:00	0714 20:01	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:01	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:01	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:01	BM
Copper, Total	0.0008	mg/l	0.0005	1	6020	0711 12:00	0714 20:01	BM
Iron, Total	2.09	mg/l	0.050	1	6020	0711 12:00	0714 20:01	BM
Lead, Total	0.0010	mg/l	0.0005	1	6020	0711 12:00	0714 20:01	BM
Manganese, Total	0.2698	mg/l	0.0010	1	6020	0711 12:00	0714 20:01	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:01	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:01	BM
Zinc, Total	0.0190	mg/l	0.0050	1	6020	0711 12:00	0714 20:01	BM
Dissolved Metals								
Aluminum, Dissolved	0.029	mg/l	0.010	1	6020	0711 12:00	0714 18:00	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:00	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:00	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:00	BM
Copper, Dissolved	0.0017	mg/l	0.0005	1	6020	0711 12:00	0714 18:00	BM
Iron, Dissolved	0.268	mg/l	0.050	1	6020	0711 12:00	0714 18:00	BM
Lead, Dissolved	0.0008	mg/l	0.0005	1	6020	0711 12:00	0714 18:00	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-04
SW-4

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.1708	mg/l	0.0010	1	6020	0711 12:00	0714 18:00	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:00	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:00	BM
Zinc, Dissolved	0.0133	mg/l	0.0050	1	6020	0711 12:00	0714 18:00	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-05
SW-9
Sample Matrix: WATER

Date Collected: 10-JUL-2008 12:00
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:53	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0717 14:17	JL
Nitrogen, Nitrate	0.15	mg/l	0.10	30	4500NO3-F		0710 22:29	DD
Phosphorus, Total	0.070	mg/l	0.010	30	4500P-E		0712 16:02	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	4.5	mg/l	0.50	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	14	mg/l	0.66	1	6010B	0711 12:00	0718 09:34	MG
Total Metals								
Aluminum, Total	0.352	mg/l	0.010	1	6020	0711 12:00	0714 20:28	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:28	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:28	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:28	BM
Copper, Total	0.0013	mg/l	0.0005	1	6020	0711 12:00	0714 20:28	BM
Iron, Total	3.61	mg/l	0.050	1	6020	0711 12:00	0714 20:28	BM
Lead, Total	0.0043	mg/l	0.0005	1	6020	0711 12:00	0714 20:28	BM
Manganese, Total	0.4813	mg/l	0.0010	1	6020	0711 12:00	0714 20:28	BM
Nickel, Total	0.0008	mg/l	0.0005	1	6020	0711 12:00	0714 20:28	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:28	BM
Zinc, Total	0.0207	mg/l	0.0050	1	6020	0711 12:00	0714 20:28	BM
Dissolved Metals								
Aluminum, Dissolved	0.029	mg/l	0.010	1	6020	0711 12:00	0714 18:27	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:27	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:27	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:27	BM
Copper, Dissolved	0.0011	mg/l	0.0005	1	6020	0711 12:00	0714 18:27	BM
Iron, Dissolved	0.231	mg/l	0.050	1	6020	0711 12:00	0714 18:27	BM
Lead, Dissolved	0.0006	mg/l	0.0005	1	6020	0711 12:00	0714 18:27	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-05
SW-9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.3606	mg/l	0.0010	1	6020	0711 12:00	0714 18:27	BM
Nickel, Dissolved	0.0005	mg/l	0.0005	1	6020	0711 12:00	0714 18:27	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:27	BM
Zinc, Dissolved	0.0328	mg/l	0.0050	1	6020	0711 12:00	0714 18:27	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-06
DUP
Sample Matrix: WATER

Date Collected: 10-JUL-2008 12:05
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:54	DD
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0716 15:19	JL
Nitrogen, Nitrate	0.17	mg/l	0.10	30	4500NO3-F		0710 22:30	DD
Phosphorus, Total	0.056	mg/l	0.010	30	4500P-E		0712 16:02	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	4.5	mg/l	0.50	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	14	mg/l	0.66	1	6010B	0711 12:00	0718 09:36	MG
Total Metals								
Aluminum, Total	0.375	mg/l	0.010	1	6020	0711 12:00	0714 20:34	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:34	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:34	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:34	BM
Copper, Total	0.0013	mg/l	0.0005	1	6020	0711 12:00	0714 20:34	BM
Iron, Total	3.31	mg/l	0.050	1	6020	0711 12:00	0714 20:34	BM
Lead, Total	0.0036	mg/l	0.0005	1	6020	0711 12:00	0714 20:34	BM
Manganese, Total	0.4797	mg/l	0.0010	1	6020	0711 12:00	0714 20:34	BM
Nickel, Total	0.0008	mg/l	0.0005	1	6020	0711 12:00	0714 20:34	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:34	BM
Zinc, Total	0.0719	mg/l	0.0050	1	6020	0711 12:00	0714 20:34	BM
Dissolved Metals								
Aluminum, Dissolved	0.182	mg/l	0.010	1	6020	0711 12:00	0714 18:49	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:49	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:49	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:49	BM
Copper, Dissolved	0.0022	mg/l	0.0005	1	6020	0711 12:00	0714 18:49	BM
Iron, Dissolved	2.20	mg/l	0.050	1	6020	0711 12:00	0714 18:49	BM
Lead, Dissolved	0.0040	mg/l	0.0005	1	6020	0711 12:00	0714 18:49	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-06
DUP

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.4502	mg/l	0.0010	1	6020	0711 12:00	0714 18:49	BM
Nickel, Dissolved	0.0007	mg/l	0.0005	1	6020	0711 12:00	0714 18:49	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:49	BM
Zinc, Dissolved	0.0096	mg/l	0.0050	1	6020	0711 12:00	0714 18:49	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-07
SW-6
Sample Matrix: WATER

Date Collected: 10-JUL-2008 12:58
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:55	DD
Nitrogen, Ammonia	0.450	mg/l	0.400	30	4500NH3-BE		0716 15:28	JL
Nitrogen, Nitrate	0.84	mg/l	0.10	30	4500NO3-F		0710 22:33	DD
Phosphorus, Total	0.014	mg/l	0.010	30	4500P-E		0712 16:04	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	3.2	mg/l	0.50	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	25	mg/l	0.66	1	6010B	0711 12:00	0718 09:39	MG
Total Metals								
Aluminum, Total	0.049	mg/l	0.010	1	6020	0711 12:00	0714 20:39	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:39	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:39	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:39	BM
Copper, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:39	BM
Iron, Total	1.49	mg/l	0.050	1	6020	0711 12:00	0714 20:39	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:39	BM
Manganese, Total	0.2945	mg/l	0.0010	1	6020	0711 12:00	0714 20:39	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:39	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 20:39	BM
Zinc, Total	0.0314	mg/l	0.0050	1	6020	0711 12:00	0714 20:39	BM
Dissolved Metals								
Aluminum, Dissolved	0.020	mg/l	0.010	1	6020	0711 12:00	0714 18:55	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:55	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:55	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:55	BM
Copper, Dissolved	0.0007	mg/l	0.0005	1	6020	0711 12:00	0714 18:55	BM
Iron, Dissolved	0.271	mg/l	0.050	1	6020	0711 12:00	0714 18:55	BM
Lead, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:55	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-07
SW-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	0.2334	mg/l	0.0010	1	6020	0711 12:00	0714 18:55	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:55	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 18:55	BM
Zinc, Dissolved	ND	mg/l	0.0050	1	6020	0711 12:00	0714 18:55	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-08
SW-12
Sample Matrix: WATER

Date Collected: 10-JUL-2008 13:31
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 8-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:58	DD
Nitrogen, Ammonia	2.16	mg/l	0.400	30	4500NH3-BE		0716 15:37	JL
Nitrogen, Nitrate	0.37	mg/l	0.10	30	4500NO3-F		0710 22:34	DD
Phosphorus, Total	0.013	mg/l	0.010	30	4500P-E		0712 16:05	NM
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Total Organic Carbon	3.5	mg/l	0.50	1	9060		0716 14:08	DW
Total Hardness by SM 2340B								
Hardness	42	mg/l	0.66	1	6010B	0711 12:00	0718 09:41	MG
Total Metals								
Aluminum, Total	0.065	mg/l	0.010	1	6020	0711 12:00	0714 21:01	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:01	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:01	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:01	BM
Copper, Total	0.0005	mg/l	0.0005	1	6020	0711 12:00	0714 21:01	BM
Iron, Total	5.52	mg/l	0.050	1	6020	0711 12:00	0714 21:01	BM
Lead, Total	0.0007	mg/l	0.0005	1	6020	0711 12:00	0714 21:01	BM
Manganese, Total	1.412	mg/l	0.0010	1	6020	0711 12:00	0714 21:01	BM
Nickel, Total	0.0009	mg/l	0.0005	1	6020	0711 12:00	0714 21:01	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:01	BM
Zinc, Total	0.0163	mg/l	0.0050	1	6020	0711 12:00	0714 21:01	BM
Dissolved Metals								
Aluminum, Dissolved	ND	mg/l	0.010	1	6020	0711 12:00	0714 19:00	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:00	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:00	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:00	BM
Copper, Dissolved	0.0007	mg/l	0.0005	1	6020	0711 12:00	0714 19:00	BM
Iron, Dissolved	0.109	mg/l	0.050	1	6020	0711 12:00	0714 19:00	BM
Lead, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:00	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-08
SW-12

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Dissolved Metals								
Manganese, Dissolved	1.257	mg/l	0.0010	1	6020	0711 12:00	0714 19:00	BM
Nickel, Dissolved	0.0007	mg/l	0.0005	1	6020	0711 12:00	0714 19:00	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:00	BM
Zinc, Dissolved	0.0087	mg/l	0.0050	1	6020	0711 12:00	0714 19:00	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-09
MW-12S
Sample Matrix: WATER

Date Collected: 10-JUL-2008 11:07
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.015	mg/l	0.010	1	6020	0711 12:00	0714 21:07	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:07	BM
Arsenic, Total	0.0010	mg/l	0.0005	1	6020	0711 12:00	0714 21:07	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:07	BM
Cadmium, Total	0.0127	mg/l	0.0005	1	6020	0711 12:00	0714 21:07	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:07	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:07	BM
Manganese, Total	2.360	mg/l	0.0010	1	6020	0711 12:00	0714 21:07	BM
Sodium, Total	6.7	mg/l	2.0	1	6010B	0711 12:00	0718 09:44	MG
Thallium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:07	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 21:07	BM
Zinc, Total	0.0685	mg/l	0.0050	1	6020	0711 12:00	0714 21:07	BM
Volatile Organics by GC/MS 8260				1	8260B		0711 11:51	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-09
MW-12S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0711 11:51	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	106	%	70-130					
Toluene-d8	100	%	70-130					
4-Bromofluorobenzene	100	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-09
MW-12S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0711 11:51	GK
Dibromofluoromethane	103	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0711 19:00	0716 13:46	AK
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.8					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.8					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-09
MW-12S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0711 19:00	0716 13:46	AK
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.8					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.8					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	61.0	%	23-120					
2-Fluorobiphenyl	59.0	%	43-120					
2,4,6-Tribromophenol	73.0	%	10-120					
4-Terphenyl-d14	76.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0711 19:00	0716 13:46	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0711 19:00	0716 22:39	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.77					
Hexachlorobenzene	ND	ug/l	0.77					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	44.0	%	21-120					
Phenol-d6	31.0	%	10-120					
Nitrobenzene-d5	78.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-09
MW-12S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0711 19:00	0716 22:39	RL
2-Fluorobiphenyl	73.0	%	43-120					
2,4,6-Tribromophenol	92.0	%	10-120					
4-Terphenyl-d14	90.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-10
MW-12DO
Sample Matrix: WATER

Date Collected: 10-JUL-2008 11:48
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.306	mg/l	0.100	1	6020	0711 12:00	0714 21:12	BM
Antimony, Total	ND	mg/l	0.0050	1	6020	0711 12:00	0714 21:12	BM
Arsenic, Total	0.0182	mg/l	0.0050	1	6020	0711 12:00	0714 21:12	BM
Beryllium, Total	ND	mg/l	0.0050	1	6020	0711 12:00	0714 21:12	BM
Cadmium, Total	ND	mg/l	0.0050	1	6020	0711 12:00	0714 21:12	BM
Chromium, Total	ND	mg/l	0.0050	1	6020	0711 12:00	0714 21:12	BM
Lead, Total	ND	mg/l	0.0050	1	6020	0711 12:00	0714 21:12	BM
Manganese, Total	39.16	mg/l	0.0100	1	6020	0711 12:00	0714 21:12	BM
Sodium, Total	8.7	mg/l	2.0	1	6010B	0711 12:00	0718 09:46	MG
Thallium, Total	ND	mg/l	0.0050	1	6020	0711 12:00	0714 21:12	BM
Vanadium, Total	ND	mg/l	0.0050	1	6020	0711 12:00	0714 21:12	BM
Zinc, Total	0.0650	mg/l	0.0500	1	6020	0711 12:00	0714 21:12	BM
Volatile Organics by GC/MS 8260				1	8260B		0711 12:24	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-10
MW-12DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0711 12:24	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	108	%	70-130					
Toluene-d8	102	%	70-130					
4-Bromofluorobenzene	100	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-10
MW-12DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0711 12:24	GK
Dibromofluoromethane	103	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0711 19:00	0716 14:11	AK
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.8					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-10
MW-12DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0711 19:00	0716 14:11	AK
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.8					
2,4-Dimethylphenol	ND	ug/l	9.8					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.8					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.8					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.8					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	3.00	%	21-120					
Phenol-d6	1.00	%	10-120					
Nitrobenzene-d5	54.0	%	23-120					
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	36.0	%	10-120					
4-Terphenyl-d14	93.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0717 12:20	0718 11:56	AK
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.7					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.7					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-10
MW-12DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0717 12:20	0718 11:56	AK
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.7					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.7					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-10
MW-12DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0717 12:20	0718 11:56	AK
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	8.00	%	21-120					
Phenol-d6	1.00	%	10-120					
Nitrobenzene-d5	66.0	%	23-120					
2-Fluorobiphenyl	65.0	%	43-120					
2,4,6-Tribromophenol	48.0	%	10-120					
4-Terphenyl-d14	74.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0711 19:00	0716 14:11	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C				1	8270C	0717 12:20	0718 11:56	AK
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0711 19:00	0716 23:26	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	3.00	%	21-120					
Phenol-d6	ND	%	10-120					
Nitrobenzene-d5	66.0	%	23-120					
2-Fluorobiphenyl	60.0	%	43-120					
2,4,6-Tribromophenol	38.0	%	10-120					
4-Terphenyl-d14	92.0	%	33-120					
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0717 12:20	0718 13:10	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.76					
Hexachlorobenzene	ND	ug/l	0.76					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	7.00	%	21-120					
Phenol-d6	1.00	%	10-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810193-10
MW-12DO

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0717 12:20	0718 13:10	RL
Nitrobenzene-d5	83.0	%	23-120					
2-Fluorobiphenyl	72.0	%	43-120					
2,4,6-Tribromophenol	61.0	%	10-120					
4-Terphenyl-d14	68.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810193-11
SW-4 (EXTRA VOLUME)
Sample Matrix: WATER

Date Collected: 10-JUL-2008 11:40
Date Received : 10-JUL-2008
Date Reported : 18-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 16-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID

******* THIS SAMPLE IS ON HOLD *******

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0810193

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Nitrogen, Ammonia for sample(s) 05 (L0810443-03, WG329424-3)					
Nitrogen, Ammonia	ND	ND	mg/l	NC	20
Nitrogen, Ammonia for sample(s) 01-04,06-08 (L0810193-04, WG329272-3)					
Nitrogen, Ammonia	ND	ND	mg/l	NC	20
Nitrogen, Nitrate for sample(s) 01-08 (L0810193-04, WG328671-4)					
Nitrogen, Nitrate	0.91	0.92	mg/l	1	6
Phosphorus, Total for sample(s) 01-08 (L0810193-04, WG328894-3)					
Phosphorus, Total	0.029	0.031	mg/l	7	20
Sulfide for sample(s) 01-08 (L0810193-03, WG329037-5)					
Sulfide	ND	ND	mg/l	NC	
Total Organic Carbon for sample(s) 01-08 (L0810193-04, WG329391-4)					
Total Organic Carbon	3.5	3.7	mg/l	6	20
Total Hardness by SM 2340B for sample(s) 01-10 (L0810193-04, WG328772-1)					
Hardness	22	21	mg/l	5	20
Total Metals for sample(s) 01-10 (L0810193-04, WG328774-1)					
Aluminum, Total	0.096	0.093	mg/l	2	20
Arsenic, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.0008	0.0008	mg/l	0	20
Iron, Total	2.09	2.08	mg/l	0	20
Lead, Total	0.0010	0.0010	mg/l	2	20
Manganese, Total	0.2698	0.2677	mg/l	1	20
Nickel, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.0190	0.0195	mg/l	3	20
Dissolved Metals for sample(s) 01-08 (L0810193-04, WG328770-1)					
Aluminum, Dissolved	0.029	0.030	mg/l	6	20
Arsenic, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	0.0017	0.0010	mg/l	49	20
Iron, Dissolved	0.268	0.267	mg/l	0	20
Lead, Dissolved	0.0008	0.0007	mg/l	7	20
Manganese, Dissolved	0.1708	0.1719	mg/l	1	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.0133	0.0145	mg/l	9	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0810193

Parameter	% Recovery	QC Criteria
Cyanide, Total LCS for sample(s) 01-08 (WG329122-2)		
Cyanide, Total	104	80-120
Nitrogen, Ammonia LCS for sample(s) 01-04,06-08 (WG329272-2)		
Nitrogen, Ammonia	101	80-120
Nitrogen, Ammonia LCS for sample(s) 05 (WG329424-2)		
Nitrogen, Ammonia	102	80-120
Nitrogen, Nitrate LCS for sample(s) 01-08 (WG328671-1)		
Nitrogen, Nitrate	102	90-110
Phosphorus, Total LCS for sample(s) 01-08 (WG328894-2)		
Phosphorus, Total	101	85-115
Sulfide LCS for sample(s) 01-08 (WG329037-2)		
Sulfide	90	
Total Organic Carbon LCS for sample(s) 01-08 (WG329391-2)		
Total Organic Carbon	100	90-110
Total Hardness by SM 2340B LCS for sample(s) 01-10 (WG328772-5)		
Hardness	97	80-120
Total Metals LCS for sample(s) 01-10 (WG328772-5)		
Sodium, Total	110	80-120
Total Metals LCS for sample(s) 01-10 (WG328774-5)		
Aluminum, Total	94	80-120
Antimony, Total	96	80-120
Arsenic, Total	91	80-120
Beryllium, Total	87	80-120
Cadmium, Total	105	80-120
Chromium, Total	96	80-120
Copper, Total	96	80-120
Iron, Total	89	80-120
Lead, Total	100	80-120
Manganese, Total	98	80-120
Nickel, Total	97	80-120
Silver, Total	94	80-120
Thallium, Total	100	80-120
Vanadium, Total	93	80-120
Zinc, Total	100	80-120
Dissolved Metals LCS for sample(s) 01-08 (WG328770-5)		
Aluminum, Dissolved	92	80-120
Arsenic, Dissolved	90	80-120
Cadmium, Dissolved	103	80-120
Chromium, Dissolved	92	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0810193

Continued

Parameter	% Recovery	QC Criteria
Dissolved Metals LCS for sample(s) 01-08 (WG328770-5)		
Copper, Dissolved	93	80-120
Iron, Dissolved	94	80-120
Lead, Dissolved	100	80-120
Manganese, Dissolved	95	80-120
Nickel, Dissolved	94	80-120
Silver, Dissolved	94	80-120
Zinc, Dissolved	94	80-120
Nitrogen, Ammonia SPIKE for sample(s) 01-04,06-08 (L0810193-04, WG329272-4)		
Nitrogen, Ammonia	97	75-125
Nitrogen, Ammonia SPIKE for sample(s) 05 (L0810443-03, WG329424-4)		
Nitrogen, Ammonia	96	75-125
Nitrogen, Nitrate SPIKE for sample(s) 01-08 (L0810193-04, WG328671-3)		
Nitrogen, Nitrate	102	83-120
Phosphorus, Total SPIKE for sample(s) 01-08 (L0810193-04, WG328894-4)		
Phosphorus, Total	99	80-120
Total Organic Carbon SPIKE for sample(s) 01-08 (L0810193-04, WG329391-3)		
Total Organic Carbon	116	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810193

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 09-10 (WG328945-1, WG328945-2)					
Methylene chloride	104	95	9	20	70-130
1,1-Dichloroethane	103	99	4	20	70-130
Chloroform	106	100	6	20	70-130
Carbon tetrachloride	109	106	3	20	70-130
1,2-Dichloropropane	102	94	8	20	70-130
Dibromochloromethane	96	97	1	20	70-130
1,1,2-Trichloroethane	94	95	1	20	70-130
Tetrachloroethene	102	100	2	20	70-130
Chlorobenzene	102	98	4	20	75-130
Trichlorofluoromethane	122	115	6	20	70-130
1,2-Dichloroethane	111	104	7	20	70-130
1,1,1-Trichloroethane	106	101	5	20	70-130
Bromodichloromethane	105	99	6	20	70-130
trans-1,3-Dichloropropene	92	90	2	20	70-130
cis-1,3-Dichloropropene	97	91	6	20	70-130
1,1-Dichloropropene	104	98	6	20	70-130
Bromoform	84	85	1	20	70-130
1,1,2,2-Tetrachloroethane	93	92	1	20	70-130
Benzene	102	97	5	20	76-127
Toluene	100	97	3	20	76-125
Ethylbenzene	104	102	2	20	70-130
Chloromethane	96	94	2	20	70-130
Bromomethane	122	110	10	20	70-130
Vinyl chloride	99	98	1	20	70-130
Chloroethane	118	110	7	20	70-130
1,1-Dichloroethene	106	102	4	20	61-145
trans-1,2-Dichloroethene	107	100	7	20	70-130
Trichloroethene	104	97	7	20	71-120
1,2-Dichlorobenzene	102	99	3	20	70-130
1,3-Dichlorobenzene	103	102	1	20	70-130
1,4-Dichlorobenzene	104	101	3	20	70-130
Methyl tert butyl ether	95	89	7	20	70-130
p/m-Xylene	106	102	4	20	70-130
o-Xylene	104	101	3	20	70-130
cis-1,2-Dichloroethene	102	95	7	20	70-130
Dibromomethane	102	95	7	20	70-130
1,2,3-Trichloropropane	104	100	4	20	70-130
Styrene	106	101	5	20	70-130
Dichlorodifluoromethane	103	97	6	20	70-130
Acetone	90	78	14	20	70-130
Carbon disulfide	91	86	6	20	70-130
2-Butanone	87	87	0	20	70-130
4-Methyl-2-pentanone	90	88	2	20	70-130
2-Hexanone	85	85	0	20	70-130
Bromochloromethane	102	99	3	20	70-130
Tetrahydrofuran	96	94	2	20	70-130
2,2-Dichloropropane	113	108	5	20	70-130
1,2-Dibromoethane	96	93	3	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810193

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 09-10 (WG328945-1, WG328945-2)					
1,3-Dichloropropane	97	95	2	20	70-130
1,1,1,2-Tetrachloroethane	101	98	3	20	70-130
Bromobenzene	101	98	3	20	70-130
n-Butylbenzene	106	105	1	20	70-130
sec-Butylbenzene	105	104	1	20	70-130
tert-Butylbenzene	103	102	1	20	70-130
o-Chlorotoluene	106	105	1	20	70-130
p-Chlorotoluene	105	105	0	20	70-130
1,2-Dibromo-3-chloropropane	88	97	10	20	70-130
Hexachlorobutadiene	96	103	7	20	70-130
Isopropylbenzene	121	121	0	20	70-130
p-Isopropyltoluene	107	107	0	20	70-130
Naphthalene	90	90	0	20	70-130
n-Propylbenzene	104	104	0	20	70-130
1,2,3-Trichlorobenzene	95	96	1	20	70-130
1,2,4-Trichlorobenzene	95	95	0	20	70-130
1,3,5-Trimethylbenzene	104	103	1	20	70-130
1,2,4-Trimethylbenzene	104	102	2	20	70-130
Ethyl ether	95	92	3	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	108	107	1		70-130
Toluene-d8	100	100	0		70-130
4-Bromofluorobenzene	98	101	3		70-130
Dibromofluoromethane	104	101	3		70-130
Semivolatile Organics by EPA 8270C for sample(s) 09-10 (WG328851-2, WG328851-3)					
Acenaphthene	67	61	9	30	46-118
1,2,4-Trichlorobenzene	54	46	16	30	39-98
2-Chloronaphthalene	64	58	10	30	40-140
1,2-Dichlorobenzene	53	44	19	30	40-140
1,4-Dichlorobenzene	50	41	20	30	36-97
2,4-Dinitrotoluene	82	77	6	30	24-96
2,6-Dinitrotoluene	84	82	2	30	40-140
Fluoranthene	90	84	7	30	40-140
4-Chlorophenyl phenyl ether	74	69	7	30	40-140
n-Nitrosodi-n-propylamine	61	53	14	30	41-116
Butyl benzyl phthalate	88	84	5	30	40-140
Anthracene	73	69	6	30	40-140
Pyrene	83	78	6	30	26-127
P-Chloro-M-Cresol	69	64	8	30	23-97
2-Chlorophenol	64	51	23	30	27-123
2-Nitrophenol	75	62	19	30	30-130
4-Nitrophenol	43	39	10	30	10-80
2,4-Dinitrophenol	87	84	4	30	30-130
Pentachlorophenol	93	89	4	30	9-103
Phenol	36	27	29	30	12-110

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810193

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Semivolatile Organics by EPA 8270C for sample(s) 09-10 (WG328851-2, WG328851-3)					
Surrogate(s)					
2-Fluorophenol	48	38	23		21-120
Phenol-d6	36	28	25		10-120
Nitrobenzene-d5	68	57	18		23-120
2-Fluorobiphenyl	63	55	14		43-120
2,4,6-Tribromophenol	74	71	4		10-120
4-Terphenyl-d14	75	70	7		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 09-10 (WG328852-2, WG328852-3)					
Pentachlorophenol	76	81	6		30-130
Surrogate(s)					
2-Fluorophenol	48	46	4		21-120
Phenol-d6	34	32	6		10-120
Nitrobenzene-d5	80	79	1		23-120
2-Fluorobiphenyl	69	72	4		43-120
2,4,6-Tribromophenol	87	92	6		10-120
4-Terphenyl-d14	80	87	8		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0810193

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Cyanide, Total for sample(s) 01-08 (L0810193-04, WG329122-4)					
Cyanide, Total	108	106	2	30	80-120
Sulfide for sample(s) 01-08 (L0810193-04, WG329037-4)					
Sulfide	87	87	0		
Total Hardness by SM 2340B for sample(s) 01-10 (L0810193-04, WG328772-3)					
Hardness	94	98	4	20	75-125
Total Metals for sample(s) 01-10 (L0810193-04, WG328772-3)					
Sodium, Total	100	110	10	20	75-125
Total Metals for sample(s) 01-10 (L0810193-04, WG328774-3)					
Aluminum, Total	92	97	5	20	80-120
Antimony, Total	92	97	5	20	80-120
Arsenic, Total	93	99	6	20	80-120
Beryllium, Total	87	92	6	20	80-120
Cadmium, Total	103	107	4	20	80-120
Chromium, Total	93	98	5	20	80-120
Copper, Total	92	103	11	20	80-120
Iron, Total	84	106	23	20	80-120
Lead, Total	98	104	6	20	80-120
Manganese, Total	97	106	9	20	80-120
Nickel, Total	93	99	6	20	80-120
Silver, Total	90	96	6	20	80-120
Thallium, Total	96	103	7	20	80-120
Vanadium, Total	90	95	5	20	80-120
Zinc, Total	95	104	9	20	80-120
Dissolved Metals for sample(s) 01-08 (L0810193-04, WG328770-3)					
Aluminum, Dissolved	86	89	3	20	80-120
Arsenic, Dissolved	90	88	2	20	80-120
Cadmium, Dissolved	96	99	3	20	80-120
Chromium, Dissolved	89	91	2	20	80-120
Copper, Dissolved	90	92	2	20	80-120
Iron, Dissolved	82	87	6	20	80-120
Lead, Dissolved	95	91	4	20	80-120
Manganese, Dissolved	91	93	2	20	80-120
Nickel, Dissolved	90	93	3	20	80-120
Silver, Dissolved	90	93	3	20	80-120
Zinc, Dissolved	91	94	3	20	80-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810193

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-08 (WG329122-1)								
Cyanide, Total	ND	mg/l	0.005	1	9010B/9012A	0715 11:00	0715 18:40	DD
Blank Analysis for sample(s) 01-04,06-08 (WG329272-1)								
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0716 12:17	JL
Blank Analysis for sample(s) 05 (WG329424-1)								
Nitrogen, Ammonia	ND	mg/l	0.400	30	4500NH3-BE		0717 13:41	JL
Blank Analysis for sample(s) 01-08 (WG328671-2)								
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0710 22:09	DD
Blank Analysis for sample(s) 01-08 (WG328894-1)								
Phosphorus, Total	ND	mg/l	0.010	30	4500P-E		0712 15:49	NM
Blank Analysis for sample(s) 01-08 (WG329037-1)								
Sulfide	ND	mg/l	0.10	1	9030B	0714 11:00	0714 11:00	AT
Blank Analysis for sample(s) 01-08 (WG329391-1)								
Total Organic Carbon	ND	mg/l	0.50	1	9060		0716 14:08	DW
Blank Analysis for sample(s) 01-10 (WG328772-4)								
Total Hardness by SM 2340B								
Hardness	ND	mg/l	0.66	1	6010B	0711 12:00	0718 08:59	MG
Blank Analysis for sample(s) 01-10 (WG328772-4)								
Total Metals								
Sodium, Total	ND	mg/l	2.0	1	6010B	0711 12:00	0718 08:59	MG
Blank Analysis for sample(s) 01-10 (WG328774-4)								
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0711 12:00	0714 19:11	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Copper, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810193

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-10 (WG328774-4)								
Total Metals								
Iron, Total	ND	mg/l	0.050	1	6020	0711 12:00	0714 19:11	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Manganese, Total	ND	mg/l	0.0010	1	6020	0711 12:00	0714 19:11	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Silver, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Thallium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0711 12:00	0714 19:11	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0711 12:00	0714 19:11	BM
Blank Analysis for sample(s) 01-08 (WG328770-4)								
Dissolved Metals								
Aluminum, Dissolved	ND	mg/l	0.010	1	6020	0711 12:00	0714 17:07	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:07	BM
Cadmium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:07	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:07	BM
Copper, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:07	BM
Iron, Dissolved	ND	mg/l	0.050	1	6020	0711 12:00	0714 17:07	BM
Lead, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:07	BM
Manganese, Dissolved	ND	mg/l	0.0010	1	6020	0711 12:00	0714 17:07	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:07	BM
Silver, Dissolved	ND	mg/l	0.0005	1	6020	0711 12:00	0714 17:07	BM
Zinc, Dissolved	ND	mg/l	0.0050	1	6020	0711 12:00	0714 17:07	BM
Blank Analysis for sample(s) 09-10 (WG328945-3)								
Volatile Organics by GC/MS 8260				1	8260B		0711 10:44	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810193

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 09-10 (WG328945-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0711 10:44	GK
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810193

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 09-10 (WG328945-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0711 10:44	GK
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	103	%	70-130					
Toluene-d8	96.0	%	70-130					
4-Bromofluorobenzene	103	%	70-130					
Dibromofluoromethane	98.0	%	70-130					
Blank Analysis for sample(s) 09-10 (WG328851-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0711 19:00	0716 12:33	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810193

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 09-10 (WG328851-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0711 19:00	0716 12:33	AK
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	56.0	%	21-120					
Phenol-d6	38.0	%	10-120					
Nitrobenzene-d5	77.0	%	23-120					
2-Fluorobiphenyl	73.0	%	43-120					
2,4,6-Tribromophenol	91.0	%	10-120					
4-Terphenyl-d14	89.0	%	33-120					
Blank Analysis for sample(s) 09-10 (WG328851-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0711 19:00	0716 12:33	AK
Tentatively Identified Compounds								

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810193

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 09-10 (WG328851-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0711 19:00	0716 12:33	AK
No Tentatively Identified Compounds	ND	ug/l						
Blank Analysis for sample(s) 09-10 (WG328852-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0711 19:00	0716 18:09	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	53.0	%	21-120					
Phenol-d6	37.0	%	10-120					
Nitrobenzene-d5	87.0	%	23-120					
2-Fluorobiphenyl	78.0	%	43-120					
2,4,6-Tribromophenol	102	%	10-120					
4-Terphenyl-d14	86.0	%	33-120					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/10/08

ALPHA Job #: L0810192

Client Information

Client: Louis Berger Group

Address: 295 Promenade St. Providence, RI 02908

Phone: (401) 521-5980

Fax:

Email: dgoneye@laisberger.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rox Hill Landfill

Project Location: S. Kingstown, RI

Project #: J1-1747

Project Manager: Chris Feeny

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 7/17/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

~~☐ ADEx~~ ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	6010-Dissolved metals	6010-Total metals	7010 Cyanide	9038-Sulfate	Ammonia, ~~TKN~~, Phos	6010A-Hardness	9060 TOC	4500-nitrate					Sample Specific Comments	TOTAL # BOTTLES
10193 1	SW-2	7/10/08	9:06	SW	SH	1	1	1	2	1	1	2	1						9
2	SW-1		9:17																
3	SW-13		9:35																
4	SW-4		11:30																
4	MS		11:35																
4	MSD		11:40																
5	SW-9		12:00																
6	Dup		12:05																
7	SW-6		12:58																
8	SW-12		1:31																

SAMPLE HANDLING

Filtration ____

☐ Done

☐ Not needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

* Please run NaOH to Sulfide samples

Container Type

Preservative

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	7/10/08 1530	[signature]	7/10/08 1530
[signature]	7/10/08	[signature]	7/10/08 1745

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 7/10/08

ALPHA Job #: L0810193

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Louis Berger Group
Address: 295 Promenade St.
Providence, RI 02908
Phone: (401) 521-5980
Fax:
Email: dagney@louisbergerca

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S. Kingstown, RI
Project #: J1-1747
Project Manager: Chris Feeny
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 7/17/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: SVOC, VOC, Metals

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SVOC	VOC	Metals	Sample Specific Comments	TOTAL # BOTTLES
L0193.9	MW-12S	7/10/08	11:07	GW	SH	2	2	1		5
10	MW-12D	7/10/08	11:48	GW	SH	2	2	1		5

Container Type	AV E
Preservative	NP E

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	7/10/08 1:53	[illegible]	7/10/08 1:53
[illegible]	7/10	[illegible]	7/10/08 1745

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L0810328
Client:	Louis A. Berger & Associates, Inc. 295 Promenade Street Providence, RI 02908
ATTN:	Chris Feeney
Project Name:	ROSE HILL LANDFILL
Project Number:	JI-1747
Report Date:	07/23/08

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0810328
Report Date: 07/23/08

Alpha Sample ID	Client ID	Sample Location
L0810328-01	6V-09	SOUTH KINGSTOWN, RI
L0810328-02	FIELD BLANK	SOUTH KINGSTOWN, RI

Project Name: ROSE HILL LANDFILL **Lab Number:** L0810328
Project Number: JI-1747 **Report Date:** 07/23/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

TO-15

L0810328-01 and WG329529-3 Duplicate have elevated detection limits due to the 2x dilution required by the elevated concentrations of target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen M. O'Brien

Title: Technical Director/Representative Date: 07/23/08

AIR

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0810328
Report Date: 07/23/08

SAMPLE RESULTS

Lab ID: L0810328-01
Client ID: 6V-09
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/16/08 18:37
Analyst: AR

Date Collected: 07/08/08 13:03
Date Received: 07/14/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.400	ND	2.18		2
1,1,2,2-Tetrachloroethane	ND	0.400	ND	2.74		2
1,1,2-Trichloroethane	ND	0.400	ND	2.18		2
1,1-Dichloroethane	ND	0.400	ND	1.62		2
1,1-Dichloroethene	ND	0.400	ND	1.58		2
1,2,4-Trichlorbenzene	ND	0.400	ND	2.97		2
1,2,4-Trimethylbenzene	ND	0.400	ND	1.96		2
1,2-Dibromoethane	ND	0.400	ND	3.07		2
1,2-Dichlorobenzene	ND	0.400	ND	2.40		2
1,2-Dichloroethane	ND	0.400	ND	1.62		2
1,2-Dichloropropane	ND	0.400	ND	1.85		2
1,3,5-Trimethybenzene	ND	0.400	ND	1.96		2
1,3-Butadiene	ND	0.400	ND	0.884		2
1,3-Dichlorobenzene	ND	0.400	ND	2.40		2
1,4-Dichlorobenzene	ND	0.400	ND	2.40		2
2-Butanone	86.8	0.400	256	1.18		2
Benzene	1.11	0.400	3.55	1.28		2
Benzyl chloride	ND	0.400	ND	2.07		2
Bromomethane	ND	0.400	ND	1.55		2
Carbon disulfide	0.924	0.400	2.88	1.24		2
Carbon tetrachloride	ND	0.400	ND	2.51		2
Chlorobenzene	ND	0.400	ND	1.84		2
Chloroethane	0.552	0.400	1.45	1.05		2
Chloroform	ND	0.400	ND	1.95		2
Chloromethane	2.33	0.400	4.80	0.825		2

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0810328
Report Date: 07/23/08

SAMPLE RESULTS

Lab ID: L0810328-01
Client ID: 6V-09
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 07/08/08 13:03
Date Received: 07/14/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	4.86	0.400	19.2	1.58		2
cis-1,3-Dichloropropene	ND	0.400	ND	1.81		2
Cyclohexane	0.485	0.400	1.67	1.38		2
Dichlorodifluoromethane	0.440	0.400	2.17	1.98		2
Ethylbenzene	1.11	0.400	4.82	1.74		2
Freon-113	ND	0.400	ND	3.06		2
Freon-114	ND	0.400	ND	2.79		2
Hexachlorobutadiene	ND	0.400	ND	4.26		2
Methylene chloride	1.13	1.00	3.91	3.47		2
Methyl tert butyl ether	ND	0.400	ND	1.44		2
p/m-Xylene	3.16	0.800	13.7	3.47		2
o-Xylene	0.859	0.400	3.73	1.74		2
n-Hexane	1.99	0.400	7.00	1.41		2
Propylene	31.6	0.400	54.3	0.688		2
Styrene	ND	0.400	ND	1.70		2
Tetrachloroethene	1.06	0.400	7.21	2.71		2
Toluene	3.66	0.400	13.8	1.51		2
trans-1,2-Dichloroethene	ND	0.400	ND	1.58		2
trans-1,3-Dichloropropene	ND	0.400	ND	1.81		2
Trichloroethene	0.754	0.400	4.05	2.15		2
Trichlorofluoromethane	ND	0.400	ND	2.24		2
Vinyl chloride	1.20	0.400	3.08	1.02		2

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0810328
Report Date: 07/23/08

SAMPLE RESULTS

Lab ID: L0810328-02
Client ID: FIELD BLANK
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/16/08 19:53
Analyst: AR

Date Collected: 07/08/08 15:30
Date Received: 07/14/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorbenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	1.24	0.200	3.65	0.589		1
Benzene	0.390	0.200	1.25	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.708	0.200	1.46	0.413		1

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0810328
Report Date: 07/23/08

SAMPLE RESULTS

Lab ID: L0810328-02
Client ID: FIELD BLANK
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 07/08/08 15:30
Date Received: 07/14/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dichlorodifluoromethane	0.418	0.200	2.07	0.988		1
Ethylbenzene	0.209	0.200	0.906	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Methylene chloride	0.595	0.500	2.06	1.74		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	0.628	0.400	2.72	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
n-Hexane	2.24	0.200	7.91	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	0.248	0.200	1.68	1.36		1
Toluene	1.46	0.200	5.50	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.203	0.200	1.14	1.12		1
Vinyl chloride	ND	0.200	ND	0.511		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0810328

Project Number: JI-1747 **Report Date:** 07/23/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/16/08 17:20

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-02 Batch: WG329529-3						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorbenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
2-Hexanone	ND	0.200	ND	0.819		1
3-Chloropropene	ND	0.200	ND	0.626		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	0.500	ND	1.19		1
Benzene	ND	0.200	ND	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0810328

Project Number: JI-1747 **Report Date:** 07/23/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/16/08 17:20

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-02 Batch: WG329529-3						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethanol	ND	2.50	ND	4.71		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0810328

Project Number: JI-1747 **Report Date:** 07/23/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/16/08 17:20

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-02 Batch: WG329529-3						
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Tetrahydrofuran	ND	0.200	ND	0.589		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl acetate	ND	0.200	ND	0.704		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0810328
Report Date: 07/23/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-02 Batch: WG329529-2					
1,1,1-Trichloroethane	109	-	70-130	-	
1,1,2,2-Tetrachloroethane	111	-	70-130	-	
1,1,2-Trichloroethane	113	-	70-130	-	
1,1-Dichloroethane	103	-	70-130	-	
1,1-Dichloroethene	91	-	70-130	-	
1,2,4-Trichlorobenzene	106	-	70-130	-	
1,2,4-Trimethylbenzene	105	-	70-130	-	
1,2-Dibromoethane	99	-	70-130	-	
1,2-Dichlorobenzene	101	-	70-130	-	
1,2-Dichloroethane	104	-	70-130	-	
1,2-Dichloropropane	126	-	70-130	-	
1,3,5-Trimethylbenzene	105	-	70-130	-	
1,3-Butadiene	100	-	70-130	-	
1,3-Dichlorobenzene	102	-	70-130	-	
1,4-Dichlorobenzene	103	-	70-130	-	
1,4-Dioxane	108	-	70-130	-	
2,2,4-Trimethylpentane	124	-	70-130	-	
2-Butanone	102	-	70-130	-	
2-Hexanone	121	-	70-130	-	
3-Chloropropene	116	-	70-130	-	
4-Ethyltoluene	103	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0810328
Report Date: 07/23/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-02 Batch: WG329529-2					
Acetone	104	-	70-130	-	
Benzene	115	-	70-130	-	
Benzyl chloride	105	-	70-130	-	
Bromodichloromethane	115	-	70-130	-	
Bromoform	101	-	70-130	-	
Bromomethane	77	-	70-130	-	
Carbon disulfide	88	-	70-130	-	
Carbon tetrachloride	105	-	70-130	-	
Chlorobenzene	102	-	70-130	-	
Chloroethane	96	-	70-130	-	
Chloroform	98	-	70-130	-	
Chloromethane	95	-	70-130	-	
cis-1,2-Dichloroethene	104	-	70-130	-	
cis-1,3-Dichloropropene	111	-	70-130	-	
Cyclohexane	114	-	70-130	-	
Dibromochloromethane	100	-	70-130	-	
Dichlorodifluoromethane	86	-	70-130	-	
Ethyl Alcohol	110	-	70-130	-	
Ethyl Acetate	**133**	-	70-130	-	
Ethylbenzene	112	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	88	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0810328
Report Date: 07/23/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-02 Batch: WG329529-2					
1,2-Dichloro-1,1,2,2-tetrafluoroethane	90	-	70-130	-	
Hexachlorobutadiene	94	-	70-130	-	
iso-Propyl Alcohol	110	-	70-130	-	
Methylene chloride	100	-	70-130	-	
4-Methyl-2-pentanone	128	-	70-130	-	
Methyl tert butyl ether	101	-	70-130	-	
p/m-Xylene	110	-	70-130	-	
o-Xylene	112	-	70-130	-	
Heptane	122	-	70-130	-	
n-Hexane	117	-	70-130	-	
Propylene	97	-	70-130	-	
Styrene	106	-	70-130	-	
Tetrachloroethene	98	-	70-130	-	
Tetrahydrofuran	124	-	70-130	-	
Toluene	99	-	70-130	-	
trans-1,2-Dichloroethene	96	-	70-130	-	
trans-1,3-Dichloropropene	102	-	70-130	-	
Trichloroethene	108	-	70-130	-	
Trichlorofluoromethane	84	-	70-130	-	
Vinyl acetate	128	-	70-130	-	
Vinyl bromide	88	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0810328
Report Date: 07/23/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-02 Batch: WG329529-2					
Vinyl chloride	94	-	70-130	-	
Naphthalene	114	-	70-130	-	
Propane	105	-	70-130	-	
Acrylonitrile	111	-	70-130	-	
Acrolein	120	-	70-130	-	
1,1,1,2-Tetrachloroethane	108	-	70-130	-	
Isopropylbenzene	109	-	70-130	-	
1,2,3-Trichloropropane	112	-	70-130	-	
Acetonitrile	115	-	70-130	-	
Bromobenzene	113	-	70-130	-	
Chlorodifluoromethane	100	-	70-130	-	
Dichlorofluoromethane	103	-	70-130	-	
Dibromomethane	117	-	70-130	-	
Pentane	105	-	70-130	-	
Octane	118	-	70-130	-	
Tertiary-Amyl Methyl Ether	108	-	70-130	-	
o-Chlorotoluene	110	-	70-130	-	
p-Chlorotoluene	115	-	70-130	-	
2,2-Dichloropropane	121	-	70-130	-	
1,1-Dichloropropene	118	-	70-130	-	
Isopropyl Ether	124	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0810328
Report Date: 07/23/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-02 Batch: WG329529-2					
Ethyl-Tert-Butyl-Ether	122	-	70-130	-	
1,2,3-Trichlorobenzene	107	-	70-130	-	
Ethyl ether	**140**	-	70-130	-	
n-Butylbenzene	99	-	70-130	-	
sec-Butylbenzene	112	-	70-130	-	
tert-Butylbenzene	111	-	70-130	-	
1,2-Dibromo-3-chloropropane	106	-	70-130	-	
p-Isopropyltoluene	102	-	70-130	-	
n-Propylbenzene	113	-	70-130	-	
1,3-Dichloropropane	118	-	70-130	-	
Methanol	102	-	70-130	-	
Butane	99	-	70-130	-	
Nonane (C9)	**140**	-	70-130	-	
Decane (C10)	108	-	70-130	-	
Undecane	117	-	70-130	-	
Dodecane (C12)	**160**	-	70-130	-	
Butyl Acetate	111	-	70-130	-	
2,4,4-Trimethyl-2-Pentene	126	-	70-130	-	
2,4,4-Trimethyl-1-Pentene	127	-	70-130	-	
tert-Butyl Alcohol	98	-	70-130	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0810328
Report Date: 07/23/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-02 QC Batch ID: WG329529-4 QC Sample: L0810328-01 Client ID: 6V-09					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trichlorbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethybenzene	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
2-Butanone	86.8	83.1	ppbV	4	25
Benzene	1.11	1.11	ppbV	0	25
Benzyl chloride	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0810328
Report Date: 07/23/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-02 QC Batch ID: WG329529-4 QC Sample: L0810328-01 Client ID: 6V-09					
Carbon disulfide	0.924	0.895	ppbV	3	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	0.552	0.578	ppbV	5	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	2.33	2.45	ppbV	5	25
cis-1,2-Dichloroethene	4.86	4.77	ppbV	2	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	0.485	0.475	ppbV	2	25
Dichlorodifluoromethane	0.440	0.464	ppbV	5	25
Ethylbenzene	1.11	1.15	ppbV	4	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Methylene chloride	1.13	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	3.16	3.16	ppbV	0	25
o-Xylene	0.859	0.860	ppbV	0	25
n-Hexane	1.99	1.94	ppbV	3	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0810328
Report Date: 07/23/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-02 QC Batch ID: WG329529-4 QC Sample: L0810328-01 Client ID: 6V-09					
Propylene	31.6	32.4	ppbV	2	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	1.06	1.10	ppbV	4	25
Toluene	3.66	4.09	ppbV	11	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	0.754	0.764	ppbV	1	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl chloride	1.20	1.20	ppbV	0	25

Project Name: ROSE HILL LANDFILL **Lab Number:** L0810328

Project Number: JI-1747 **Report Date:** 07/23/08

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0810328-01	6V-09	0343	#20 SV		-	-	9.8	8.7	12
L0810328-01	6V-09	359	2.7L Can	L0809160-01	-29.3	-0.7	-	-	-
L0810328-02	FIELD BLANK	0168	#20 SV		-	-	9.8	10.4	6
L0810328-02	FIELD BLANK	130	2.7L Can	I0808740	-29.5	0.4	-	-	-

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0810328
Report Date: 07/23/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0810328-01A	Canister - 2.7 Liter	NA	NA		NA	Absent	TO15-LL
L0810328-02A	Canister - 2.7 Liter	NA	NA		NA	Absent	TO15-LL

Project Name:	ROSE HILL LANDFILL	**Lab Number:**	L0810328
Project Number:	JI-1747	**Report Date:**	07/23/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified

Project Name: ROSE HILL LANDFILL **Lab Number:** L0810328
Project Number: JI-1747 **Report Date:** 07/23/08

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

07230816:26

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Date Rec'd in Lab:

ALPHA Job #: L0810328

Client Information

Client: The Louis Berger Grp
Address: 295 Promenade St
Providence, RI 02907
Phone: (401) 524-3580
Fax: (401) 331-8956
Email: dgee@louisberger.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S Kingstown, RI
Project #: J1-1494
Project Manager: Chris Ferry
ALPHA Quote #:

Turn-Around Time

☐ Standard 5 DAYS TO-13: 10 DAYS
☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed	Program	Criteria

Other Project Specific Requirements/Comments:

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Start Time	Collection End Time	Sample Matrix	Sampler's Initials	ID Can	ID-Flow Controller	TO-14A	TO-15	APH	DISSOLVED GASES	FIXED GASES	TO-13A	TO-15 SULFIDES/MERCAPTANS	DISS GASES CO2 ONLY			Sample Comments	TOTAL # CONTINERS
10328-01	6V-09	7/8/08	8:58	1:03	SV	SU		0343		✓										1
-02	Field Blank	7/9/08	11:26	15:30	A	SU	130	0168		✓										1

Shaded Gray Areas For Lab Use Only

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]		Paul Gilbert	7/14/08 9:50
Paul Gilbert	7/14/08 10:15	[illegible]	7/14/08 11:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Form No: 01-03 (rev. 8-JUN-05)

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Louis A. Berger & Associates, Inc.

Address: 295 Promenade Street
Providence, RI 02908

Attn: Mr. Chris Feeney

Project Number: JI-1747

Laboratory Job Number: L0810335

Date Received: 14-JUL-2008

Date Reported: 24-JUL-2008

Delivery Method: Alpha

Site: ROSE HILL LANDFILL

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0810335-01	RES-10	S. KINGSTOWN, RI
L0810335-02	RES-7	S. KINGSTOWN, RI
L0810335-03	RES-11	S. KINGSTOWN, RI
L0810335-04	TRIP BLANK	S. KINGSTOWN, RI

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Michelle M. Morris
Technical Representative

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0810335

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

One vial for sample L0810335-02 (RES-7) was received broken; however, sufficient volume remained for analysis.

Semivolatile Organics

L0810335-01 through -03 and the WG329394-1 Method Blank were non-detect for N,N-Dimethylformamide as a TIC.

Semivolatile Organics-SIM

The surrogate recoveries for the WG329395-2/-3 LCS/LCSD are above the acceptance criteria for 2,4,6-Tribromophenol.

Metals

The WG329173-1 Duplicate RPD for Zinc is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810335-01
RES-10
Sample Matrix: WATER

Date Collected: 11-JUL-2008 14:05
Date Received : 14-JUL-2008
Date Reported : 24-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0715 13:00	0716 16:46	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:46	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:46	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:46	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:46	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:46	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:46	BM
Manganese, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:46	BM
Sodium, Total	24	mg/l	2.0	1	6010B	0715 13:00	0723 11:00	MG
Thallium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:46	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:46	BM
Zinc, Total	0.0052	mg/l	0.0050	1	6020	0715 13:00	0716 16:46	BM
Volatile Organics by GC/MS 8260				1	8260B		0715 17:11	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-01
RES-10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0715 17:11	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	109	%	70-130					
Toluene-d8	97.0	%	70-130					
4-Bromofluorobenzene	100	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-01
RES-10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0715 17:11	GK
Dibromofluoromethane	105	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0716 22:30	0722 15:12	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-01
RES-10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0716 22:30	0722 15:12	AK
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	48.0	%	21-120					
Phenol-d6	33.0	%	10-120					
Nitrobenzene-d5	67.0	%	23-120					
2-Fluorobiphenyl	67.0	%	43-120					
2,4,6-Tribromophenol	94.0	%	10-120					
4-Terphenyl-d14	82.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0716 22:30	0722 15:12	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0716 22:30	0723 00:13	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	57.0	%	21-120					
Phenol-d6	39.0	%	10-120					
Nitrobenzene-d5	94.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-01
RES-10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0716 22:30	0723 00:13	RL
2-Fluorobiphenyl	84.0	%	43-120					
2,4,6-Tribromophenol	109	%	10-120					
4-Terphenyl-d14	87.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810335-02
RES-7
Sample Matrix: WATER

Date Collected: 11-JUL-2008 14:30
Date Received : 14-JUL-2008
Date Reported : 24-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.011	mg/l	0.010	1	6020	0715 13:00	0716 17:24	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:24	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:24	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:24	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:24	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:24	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:24	BM
Manganese, Total	0.0033	mg/l	0.0005	1	6020	0715 13:00	0716 17:24	BM
Sodium, Total	25	mg/l	2.0	1	6010B	0715 13:00	0723 11:27	MG
Thallium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:24	BM
Vanadium, Total	0.0006	mg/l	0.0005	1	6020	0715 13:00	0716 17:24	BM
Zinc, Total	0.0076	mg/l	0.0050	1	6020	0715 13:00	0716 17:24	BM
Volatile Organics by GC/MS 8260				1	8260B		0715 17:45	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-02
RES-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0715 17:45	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	2.6	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	110	%	70-130					
Toluene-d8	97.0	%	70-130					
4-Bromofluorobenzene	99.0	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-02
RES-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0715 17:45	GK
Dibromofluoromethane	105	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0716 22:30	0722 15:36	AK
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.8					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.9					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.9					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-02
RES-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0716 22:30	0722 15:36	AK
4-Chloroaniline	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.9					
2-Methylnaphthalene	ND	ug/l	4.9					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
P-Chloro-M-Cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.8					
2,4-Dimethylphenol	ND	ug/l	9.8					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.8					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	9.8					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
Benzyl Alcohol	ND	ug/l	9.8					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	47.0	%	21-120					
Phenol-d6	32.0	%	10-120					
Nitrobenzene-d5	66.0	%	23-120					
2-Fluorobiphenyl	66.0	%	43-120					
2,4,6-Tribromophenol	88.0	%	10-120					
4-Terphenyl-d14	81.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0716 22:30	0722 15:36	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0716 22:30	0723 01:00	RL
Hexachlorobutadiene	ND	ug/l	0.49					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	48.0	%	21-120					
Phenol-d6	32.0	%	10-120					
Nitrobenzene-d5	80.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-02
RES-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0716 22:30	0723 01:00	RL
2-Fluorobiphenyl	73.0	%	43-120					
2,4,6-Tribromophenol	101	%	10-120					
4-Terphenyl-d14	86.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810335-03
RES-11
Sample Matrix: WATER

Date Collected: 11-JUL-2008 15:09
Date Received : 14-JUL-2008
Date Reported : 24-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals								
Aluminum, Total	0.013	mg/l	0.010	1	6020	0715 13:00	0716 17:30	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:30	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:30	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:30	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:30	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:30	BM
Lead, Total	0.0009	mg/l	0.0005	1	6020	0715 13:00	0716 17:30	BM
Manganese, Total	0.1505	mg/l	0.0005	1	6020	0715 13:00	0716 17:30	BM
Sodium, Total	5.9	mg/l	2.0	1	6010B	0715 13:00	0723 11:29	MG
Thallium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:30	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 17:30	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0715 13:00	0716 17:30	BM
Volatile Organics by GC/MS 8260				1	8260B		0715 18:18	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-03
RES-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0715 18:18	GK
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	105	%	70-130					
Toluene-d8	94.0	%	70-130					
4-Bromofluorobenzene	98.0	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-03
RES-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0715 18:18	GK
Dibromofluoromethane	102	%	70-130					
Semivolatile Organics by EPA 8270C				1	8270C	0716 22:30	0722 16:01	AK
Acenaphthene	ND	ug/l	4.8					
Benzidine	ND	ug/l	48.					
1,2,4-Trichlorobenzene	ND	ug/l	4.8					
Hexachlorobenzene	ND	ug/l	4.8					
Bis(2-chloroethyl)ether	ND	ug/l	4.8					
2-Chloronaphthalene	ND	ug/l	5.7					
1,2-Dichlorobenzene	ND	ug/l	4.8					
1,3-Dichlorobenzene	ND	ug/l	4.8					
1,4-Dichlorobenzene	ND	ug/l	4.8					
3,3'-Dichlorobenzidine	ND	ug/l	48.					
2,4-Dinitrotoluene	ND	ug/l	5.7					
2,6-Dinitrotoluene	ND	ug/l	4.8					
Azobenzene	ND	ug/l	4.8					
Fluoranthene	ND	ug/l	4.8					
4-Chlorophenyl phenyl ether	ND	ug/l	4.8					
4-Bromophenyl phenyl ether	ND	ug/l	4.8					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8					
Bis(2-chloroethoxy)methane	ND	ug/l	4.8					
Hexachlorobutadiene	ND	ug/l	9.6					
Hexachlorocyclopentadiene	ND	ug/l	29.					
Hexachloroethane	ND	ug/l	4.8					
Isophorone	ND	ug/l	4.8					
Naphthalene	ND	ug/l	4.8					
Nitrobenzene	ND	ug/l	4.8					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	14.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.8					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	4.8					
Butyl benzyl phthalate	ND	ug/l	4.8					
Di-n-butylphthalate	ND	ug/l	4.8					
Di-n-octylphthalate	ND	ug/l	4.8					
Diethyl phthalate	ND	ug/l	4.8					
Dimethyl phthalate	ND	ug/l	4.8					
Benzo(a)anthracene	ND	ug/l	4.8					
Benzo(a)pyrene	ND	ug/l	4.8					
Benzo(b)fluoranthene	ND	ug/l	4.8					
Benzo(k)fluoranthene	ND	ug/l	4.8					
Chrysene	ND	ug/l	4.8					
Acenaphthylene	ND	ug/l	4.8					
Anthracene	ND	ug/l	4.8					
Benzo(ghi)perylene	ND	ug/l	4.8					
Fluorene	ND	ug/l	4.8					
Phenanthrene	ND	ug/l	4.8					
Dibenzo(a,h)anthracene	ND	ug/l	4.8					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	6.7					
Pyrene	ND	ug/l	4.8					
Aniline	ND	ug/l	19.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-03
RES-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0716 22:30	0722 16:01	AK
4-Chloroaniline	ND	ug/l	4.8					
2-Nitroaniline	ND	ug/l	4.8					
3-Nitroaniline	ND	ug/l	4.8					
4-Nitroaniline	ND	ug/l	6.7					
Dibenzofuran	ND	ug/l	4.8					
2-Methylnaphthalene	ND	ug/l	4.8					
n-Nitrosodimethylamine	ND	ug/l	48.					
2,4,6-Trichlorophenol	ND	ug/l	4.8					
P-Chloro-M-Cresol	ND	ug/l	4.8					
2-Chlorophenol	ND	ug/l	5.7					
2,4-Dichlorophenol	ND	ug/l	9.6					
2,4-Dimethylphenol	ND	ug/l	9.6					
2-Nitrophenol	ND	ug/l	19.					
4-Nitrophenol	ND	ug/l	9.6					
2,4-Dinitrophenol	ND	ug/l	29.					
4,6-Dinitro-o-cresol	ND	ug/l	19.					
Pentachlorophenol	ND	ug/l	9.6					
Phenol	ND	ug/l	6.7					
2-Methylphenol	ND	ug/l	5.7					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7					
2,4,5-Trichlorophenol	ND	ug/l	4.8					
Benzyl Alcohol	ND	ug/l	9.6					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	52.0	%	21-120					
Phenol-d6	35.0	%	10-120					
Nitrobenzene-d5	74.0	%	23-120					
2-Fluorobiphenyl	70.0	%	43-120					
2,4,6-Tribromophenol	92.0	%	10-120					
4-Terphenyl-d14	87.0	%	33-120					
Semivolatile Organics by EPA 8270C				1	8270C	0716 22:30	0722 16:01	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0716 22:30	0723 01:47	RL
Hexachlorobutadiene	ND	ug/l	0.48					
Benzo(a)anthracene	ND	ug/l	0.19					
Benzo(a)pyrene	ND	ug/l	0.19					
Benzo(b)fluoranthene	ND	ug/l	0.19					
Benzo(k)fluoranthene	ND	ug/l	0.19					
Pentachlorophenol	ND	ug/l	0.76					
Hexachlorobenzene	ND	ug/l	0.76					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	57.0	%	21-120					
Phenol-d6	38.0	%	10-120					
Nitrobenzene-d5	94.0	%	23-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-03
RES-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0716 22:30	0723 01:47	RL
2-Fluorobiphenyl	80.0	%	43-120					
2,4,6-Tribromophenol	106	%	10-120					
4-Terphenyl-d14	77.0	%	33-120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0810335-04
TRIP BLANK
Sample Matrix: WATER

Date Collected: 30-JUN-2008 18:15
Date Received : 14-JUL-2008
Date Reported : 24-JUL-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1	8260B		0715 18:52	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0810335-04
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0715 18:52	GK
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	106	%	70-130					
Toluene-d8	98.0	%	70-130					
4-Bromofluorobenzene	97.0	%	70-130					
Dibromofluoromethane	106	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0810335

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 01-03 (L0810335-01, WG329173-1)					
Aluminum, Total	ND	ND	mg/l	NC	20
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Manganese, Total	ND	ND	mg/l	NC	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.0052	0.0073	mg/l	33	20
Total Metals for sample(s) 01-03 (L0810335-01, WG329172-1)					
Sodium, Total	24	25	mg/l	4	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0810335

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 01-03 (WG329173-4)		
Aluminum, Total	88	80-120
Antimony, Total	88	80-120
Arsenic, Total	91	80-120
Beryllium, Total	81	80-120
Cadmium, Total	98	80-120
Chromium, Total	92	80-120
Lead, Total	96	80-120
Manganese, Total	92	80-120
Thallium, Total	89	80-120
Vanadium, Total	90	80-120
Zinc, Total	96	80-120
Total Metals LCS for sample(s) 01-03 (WG329172-4)		
Sodium, Total	110	80-120
Total Metals SPIKE for sample(s) 01-03 (L0810335-01, WG329173-2)		
Aluminum, Total	92	80-120
Antimony, Total	92	80-120
Arsenic, Total	93	80-120
Beryllium, Total	85	80-120
Cadmium, Total	104	80-120
Chromium, Total	97	80-120
Lead, Total	99	80-120
Manganese, Total	95	80-120
Thallium, Total	94	80-120
Vanadium, Total	93	80-120
Zinc, Total	98	80-120
Total Metals SPIKE for sample(s) 01-03 (L0810335-01, WG329172-2)		
Sodium, Total	120	75-125

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810335

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-04 (WG329283-1, WG329283-2)					
Methylene chloride	114	104	9	20	70-130
1,1-Dichloroethane	106	100	6	20	70-130
Chloroform	110	106	4	20	70-130
Carbon tetrachloride	117	112	4	20	70-130
1,2-Dichloropropane	100	97	3	20	70-130
Dibromochloromethane	98	96	2	20	70-130
1,1,2-Trichloroethane	96	92	4	20	70-130
Tetrachloroethene	105	100	5	20	70-130
Chlorobenzene	101	95	6	20	75-130
Trichlorofluoromethane	128	117	9	20	70-130
1,2-Dichloroethane	114	109	4	20	70-130
1,1,1-Trichloroethane	114	105	8	20	70-130
Bromodichloromethane	107	102	5	20	70-130
trans-1,3-Dichloropropene	96	93	3	20	70-130
cis-1,3-Dichloropropene	100	94	6	20	70-130
1,1-Dichloropropene	106	100	6	20	70-130
Bromoform	86	86	0	20	70-130
1,1,2,2-Tetrachloroethane	87	87	0	20	70-130
Benzene	102	97	5	20	76-127
Toluene	99	94	5	20	76-125
Ethylbenzene	105	98	7	20	70-130
Chloromethane	95	88	8	20	70-130
Bromomethane	118	109	8	20	70-130
Vinyl chloride	102	92	10	20	70-130
Chloroethane	122	109	11	20	70-130
1,1-Dichloroethene	113	102	10	20	61-145
trans-1,2-Dichloroethene	112	104	7	20	70-130
Trichloroethene	106	98	8	20	71-120
1,2-Dichlorobenzene	102	97	5	20	70-130
1,3-Dichlorobenzene	104	100	4	20	70-130
1,4-Dichlorobenzene	105	100	5	20	70-130
Methyl tert butyl ether	95	95	0	20	70-130
p/m-Xylene	106	98	8	20	70-130
o-Xylene	102	96	6	20	70-130
cis-1,2-Dichloroethene	108	99	9	20	70-130
Dibromomethane	102	99	3	20	70-130
1,2,3-Trichloropropane	92	99	7	20	70-130
Styrene	102	97	5	20	70-130
Dichlorodifluoromethane	98	90	9	20	70-130
Acetone	88	83	6	20	70-130
Carbon disulfide	107	99	8	20	70-130
2-Butanone	88	92	4	20	70-130
4-Methyl-2-pentanone	90	95	5	20	70-130
2-Hexanone	83	87	5	20	70-130
Bromochloromethane	109	101	8	20	70-130
Tetrahydrofuran	87	86	1	20	70-130
2,2-Dichloropropane	125	118	6	20	70-130
1,2-Dibromoethane	97	94	3	20	70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810335

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-04 (WG329283-1, WG329283-2)					
1,3-Dichloropropane	94	91	3	20	70-130
1,1,1,2-Tetrachloroethane	107	100	7	20	70-130
Bromobenzene	101	97	4	20	70-130
n-Butylbenzene	109	100	9	20	70-130
sec-Butylbenzene	109	99	10	20	70-130
tert-Butylbenzene	107	99	8	20	70-130
o-Chlorotoluene	106	99	7	20	70-130
p-Chlorotoluene	106	100	6	20	70-130
1,2-Dibromo-3-chloropropane	94	91	3	20	70-130
Hexachlorobutadiene	105	100	5	20	70-130
Isopropylbenzene	122	116	5	20	70-130
p-Isopropyltoluene	111	104	7	20	70-130
Naphthalene	89	90	1	20	70-130
n-Propylbenzene	104	97	7	20	70-130
1,2,3-Trichlorobenzene	98	96	2	20	70-130
1,2,4-Trichlorobenzene	98	94	4	20	70-130
1,3,5-Trimethylbenzene	107	100	7	20	70-130
1,2,4-Trimethylbenzene	106	98	8	20	70-130
Ethyl ether	94	94	0	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	105	109	4		70-130
Toluene-d8	95	98	3		70-130
4-Bromofluorobenzene	97	100	3		70-130
Dibromofluoromethane	106	106	0		70-130
Semivolatile Organics by EPA 8270C for sample(s) 01-03 (WG329394-2, WG329394-3)					
Acenaphthene	77	76	1	30	46-118
1,2,4-Trichlorobenzene	74	76	3	30	39-98
2-Chloronaphthalene	76	78	3	30	40-140
1,2-Dichlorobenzene	73	75	3	30	40-140
1,4-Dichlorobenzene	69	72	4	30	36-97
2,4-Dinitrotoluene	84	85	1	30	24-96
2,6-Dinitrotoluene	91	91	0	30	40-140
Fluoranthene	95	97	2	30	40-140
4-Chlorophenyl phenyl ether	85	83	2	30	40-140
n-Nitrosodi-n-propylamine	67	69	3	30	41-116
Butyl benzyl phthalate	97	99	2	30	40-140
Anthracene	82	81	1	30	40-140
Pyrene	87	90	3	30	26-127
P-Chloro-M-Cresol	78	80	3	30	23-97
2-Chlorophenol	72	74	3	30	27-123
2-Nitrophenol	81	83	2	30	30-130
4-Nitrophenol	41	43	5	30	10-80
2,4-Dinitrophenol	84	89	6	30	30-130
Pentachlorophenol	100	101	1	30	9-103
Phenol	36	38	5	30	12-110

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0810335

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Semivolatile Organics by EPA 8270C for sample(s) 01-03 (WG329394-2, WG329394-3)					
Surrogate(s)					
2-Fluorophenol	53	58	9		21-120
Phenol-d6	37	42	13		10-120
Nitrobenzene-d5	74	81	9		23-120
2-Fluorobiphenyl	72	79	9		43-120
2,4,6-Tribromophenol	98	102	4		10-120
4-Terphenyl-d14	85	89	5		33-120
Semivolatile Organics by EPA 8270C-SIM for sample(s) 01-03 (WG329395-2, WG329395-3)					
Pentachlorophenol	105	106	1		30-130
Surrogate(s)					
2-Fluorophenol	64	59	8		21-120
Phenol-d6	45	42	7		10-120
Nitrobenzene-d5	99	101	2		23-120
2-Fluorobiphenyl	83	85	2		43-120
2,4,6-Tribromophenol	130	122	6		10-120
4-Terphenyl-d14	99	95	4		33-120

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810335

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03 (WG329173-3)								
Total Metals								
Aluminum, Total	ND	mg/l	0.010	1	6020	0715 13:00	0716 16:29	BM
Antimony, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:29	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:29	BM
Beryllium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:29	BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:29	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:29	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:29	BM
Manganese, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:29	BM
Thallium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:29	BM
Vanadium, Total	ND	mg/l	0.0005	1	6020	0715 13:00	0716 16:29	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0715 13:00	0716 16:29	BM
Blank Analysis for sample(s) 01-03 (WG329172-3)								
Total Metals								
Sodium, Total	ND	mg/l	2.0	1	6010B	0715 13:00	0723 10:51	MG
Blank Analysis for sample(s) 01-04 (WG329283-3)								
Volatile Organics by GC/MS 8260				1	8260B		0715 11:03	GK
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	2.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810335

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG329283-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0715 11:03	GK
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.50					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	107	%	70-130					
Toluene-d8	96.0	%	70-130					
4-Bromofluorobenzene	99.0	%	70-130					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810335

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG329283-3)								
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0715 11:03	GK
Dibromofluoromethane	105	%	70-130					
Blank Analysis for sample(s) 01-03 (WG329394-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0716 22:30	0722 13:58	AK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-Ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810335

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03 (WG329394-1)								
Semivolatile Organics by EPA 8270C cont'd				1	8270C	0716 22:30	0722 13:58	AK
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
P-Chloro-M-Cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
Benzyl Alcohol	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	45.0	%	21-120					
Phenol-d6	31.0	%	10-120					
Nitrobenzene-d5	59.0	%	23-120					
2-Fluorobiphenyl	63.0	%	43-120					
2,4,6-Tribromophenol	82.0	%	10-120					
4-Terphenyl-d14	80.0	%	33-120					
Blank Analysis for sample(s) 01-03 (WG329394-1)								
Semivolatile Organics by EPA 8270C				1	8270C	0716 22:30	0722 13:58	AK
Tentatively Identified Compounds								
No Tentatively Identified Compounds	ND	ug/l						
Blank Analysis for sample(s) 01-03 (WG329395-1)								
Semivolatile Organics by EPA 8270C-SIM				1	8270C	0716 22:30	0722 21:52	RL
Hexachlorobutadiene	ND	ug/l	0.50					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0810335

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03 (WG329395-1)								
Semivolatile Organics by EPA 8270C-SIM cont'd				1	8270C	0716 22:30	0722 21:52	RL
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	38.0	%	21-120					
Phenol-d6	26.0	%	10-120					
Nitrobenzene-d5	63.0	%	23-120					
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	59.0	%	10-120					
4-Terphenyl-d14	54.0	%	33-120					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/14/08

ALPHA Job #: L0810335

Client Information

Client: The Lois Berger Group
Address: 295 Promenade St. Providence, RI 02903
Phone: (401) 521-5980
Fax: (401) 331-8556
Email: dgonyeau@lbergroup.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S. Kingstown, RI
Project #: J1-1747
Project Manager: Chris Feeny
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 7/23/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260B	8270C	SW 3050A/6020	Sample Specific Comments	Total # Bottles
10335-01	Res-10	7/11/08	14:05	GW	JW	2	2	1		5
-02	Res-7	↓	14:30	↓	↓	↓	↓	↓		↓
-03	Res-11	↓	15:09	↓	↓	↓	↓	↓		↓
-04	Trip blank-8260	6/30/08	13:15	↓	2P	↓				2
05	Trip blank-8260	6/30/08	13:15	↓	2P	↓				2

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Container Type	V	A	P
Preservative	3	A	C

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Gilbert	7/14/08 1145	Paul Gilbert / Michael Fay	7/14/08 9:50 / 7/14/08 1145

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

3rd QUARTER

LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

Lab Number:	L0815596
Client:	Louis A. Berger & Associates, Inc. 295 Promenade Street Providence, RI 02908
ATTN:	Chris Feeney
Project Name:	ROSE HILL LANDFILL
Project Number:	JI-1747
Report Date:	11/05/08

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

Alpha Sample ID	Client ID	Sample Location
L0815596-01	GV-03	SOUTH KINGSTOWN, RI
L0815596-02	GV-09	SOUTH KINGSTOWN, RI
L0815596-03	GP-11	SOUTH KINGSTOWN, RI
L0815596-04	GP-21	SOUTH KINGSTOWN, RI
L0815596-05	BACKGROUND-1	SOUTH KINGSTOWN, RI
L0815596-06	CAN 178	SOUTH KINGSTOWN, RI

Project Name: ROSE HILL LANDFILL **Lab Number:** L0815596
Project Number: JI-1747 **Report Date:** 11/05/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

TO-15

L0815596-01 has elevated detection limits due to the 290.6x dilution required by the elevated concentrations of target compounds in the sample.

L0815596-02 and -04 have elevated detection limits due to the 2x dilution required by the elevated concentrations of target compounds in the sample.

L0815596-03 has elevated detection limits due to the 25x dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen M. O'Brien

Title: Technical Director/Representative Date: 11/05/08

AIR

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-01
Client ID: GV-03
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/30/08 23:44
Analyst: RY

Date Collected: 10/21/08 13:59
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	64.1	58.1	349	317		290.6
1,1,2,2-Tetrachloroethane	ND	58.1	ND	399.		290.6
1,1,2-Trichloroethane	ND	58.1	ND	317.		290.6
1,1-Dichloroethane	70.2	58.1	284	235		290.6
1,1-Dichloroethene	60.6	58.1	240	230		290.6
1,2,4-Trichlorobenzene	ND	58.1	ND	431.		290.6
1,2,4-Trimethylbenzene	ND	58.1	ND	285.		290.6
1,2-Dibromoethane	ND	58.1	ND	446.		290.6
1,2-Dichlorobenzene	ND	58.1	ND	349.		290.6
1,2-Dichloroethane	ND	58.1	ND	235.		290.6
1,2-Dichloropropane	ND	58.1	ND	268.		290.6
1,3,5-Trimethybenzene	ND	58.1	ND	285.		290.6
1,3-Butadiene	ND	58.1	ND	128.		290.6
1,3-Dichlorobenzene	ND	58.1	ND	349.		290.6
1,4-Dichlorobenzene	ND	58.1	ND	349.		290.6
2-Butanone	ND	58.1	ND	171.		290.6
Benzene	ND	58.1	ND	186		290.6
Benzyl chloride	ND	58.1	ND	301.		290.6
Bromomethane	ND	58.1	ND	225.		290.6
Carbon disulfide	ND	58.1	ND	181.		290.6
Carbon tetrachloride	ND	58.1	ND	365.		290.6
Chlorobenzene	ND	58.1	ND	267.		290.6
Chloroethane	588	58.1	1550	153		290.6
Chloroform	ND	58.1	ND	284.		290.6
Chloromethane	ND	58.1	ND	120.		290.6

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-01
Client ID: GV-03
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 10/21/08 13:59
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	12300	58.1	48900	230		290.6
cis-1,3-Dichloropropene	ND	58.1	ND	264.		290.6
Cyclohexane	130	58.1	447	200		290.6
Dichlorodifluoromethane	103	58.1	510	287		290.6
Ethylbenzene	ND	58.1	ND	252.		290.6
Freon-113	ND	58.1	ND	445		290.6
Freon-114	ND	58.1	ND	406		290.6
Hexachlorobutadiene	ND	58.1	ND	619.		290.6
Methylene chloride	ND	145	ND	504		290.6
Methyl tert butyl ether	ND	58.1	ND	209.		290.6
p/m-Xylene	ND	116.	ND	504.		290.6
o-Xylene	ND	58.1	ND	252.		290.6
n-Hexane	245	58.1	864	205		290.6
Propylene	ND	58.1	ND	99.9		290.6
Styrene	ND	58.1	ND	247.		290.6
Tetrachloroethene	227	58.1	1540	394		290.6
Toluene	60.9	58.1	229	219		290.6
trans-1,2-Dichloroethene	ND	58.1	ND	230		290.6
trans-1,3-Dichloropropene	ND	58.1	ND	264.		290.6
Trichloroethene	1720	58.1	9250	312		290.6
Trichlorofluoromethane	ND	58.1	ND	326.		290.6
Vinyl chloride	11400	58.1	29200	148		290.6

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-02
Client ID: GV-09
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/31/08 00:50
Analyst: RY

Date Collected: 10/21/08 14:24
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.400	ND	2.18		2
1,1,2,2-Tetrachloroethane	ND	0.400	ND	2.74		2
1,1,2-Trichloroethane	ND	0.400	ND	2.18		2
1,1-Dichloroethane	ND	0.400	ND	1.62		2
1,1-Dichloroethene	ND	0.400	ND	1.58		2
1,2,4-Trichlorobenzene	ND	0.400	ND	2.97		2
1,2,4-Trimethylbenzene	ND	0.400	ND	1.96		2
1,2-Dibromoethane	ND	0.400	ND	3.07		2
1,2-Dichlorobenzene	ND	0.400	ND	2.40		2
1,2-Dichloroethane	ND	0.400	ND	1.62		2
1,2-Dichloropropane	ND	0.400	ND	1.85		2
1,3,5-Trimethybenzene	ND	0.400	ND	1.96		2
1,3-Butadiene	ND	0.400	ND	0.884		2
1,3-Dichlorobenzene	ND	0.400	ND	2.40		2
1,4-Dichlorobenzene	ND	0.400	ND	2.40		2
2-Butanone	6.77	0.400	19.9	1.18		2
Benzene	ND	0.400	ND	1.28		2
Benzyl chloride	ND	0.400	ND	2.07		2
Bromomethane	ND	0.400	ND	1.55		2
Carbon disulfide	0.530	0.400	1.65	1.24		2
Carbon tetrachloride	ND	0.400	ND	2.51		2
Chlorobenzene	ND	0.400	ND	1.84		2
Chloroethane	ND	0.400	ND	1.05		2
Chloroform	ND	0.400	ND	1.95		2
Chloromethane	1.12	0.400	2.30	0.825		2

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-02
Client ID: GV-09
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 10/21/08 14:24
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	0.688	0.400	2.72	1.58		2
cis-1,3-Dichloropropene	ND	0.400	ND	1.81		2
Cyclohexane	ND	0.400	ND	1.38		2
Dichlorodifluoromethane	0.475	0.400	2.35	1.98		2
Ethylbenzene	ND	0.400	ND	1.74		2
Freon-113	ND	0.400	ND	3.06		2
Freon-114	ND	0.400	ND	2.79		2
Hexachlorobutadiene	ND	0.400	ND	4.26		2
Methylene chloride	ND	1.00	ND	3.47		2
Methyl tert butyl ether	ND	0.400	ND	1.44		2
p/m-Xylene	ND	0.800	ND	3.47		2
o-Xylene	ND	0.400	ND	1.74		2
n-Hexane	0.451	0.400	1.59	1.41		2
Propylene	3.63	0.400	6.25	0.688		2
Styrene	ND	0.400	ND	1.70		2
Tetrachloroethene	ND	0.400	ND	2.71		2
Toluene	96.4	0.400	363	1.51		2
trans-1,2-Dichloroethene	ND	0.400	ND	1.58		2
trans-1,3-Dichloropropene	ND	0.400	ND	1.81		2
Trichloroethene	0.542	0.400	2.91	2.15		2
Trichlorofluoromethane	ND	0.400	ND	2.24		2
Vinyl chloride	0.508	0.400	1.30	1.02		2

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-03
Client ID: GP-11
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/31/08 01:22
Analyst: RY

Date Collected: 10/21/08 15:22
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	5.00	ND	27.2		25
1,1,2,2-Tetrachloroethane	ND	5.00	ND	34.3		25
1,1,2-Trichloroethane	ND	5.00	ND	27.2		25
1,1-Dichloroethane	97.1	5.00	393	20.2		25
1,1-Dichloroethene	ND	5.00	ND	19.8		25
1,2,4-Trichlorobenzene	ND	5.00	ND	37.1		25
1,2,4-Trimethylbenzene	ND	5.00	ND	24.6		25
1,2-Dibromoethane	ND	5.00	ND	38.4		25
1,2-Dichlorobenzene	ND	5.00	ND	30.0		25
1,2-Dichloroethane	ND	5.00	ND	20.2		25
1,2-Dichloropropane	ND	5.00	ND	23.1		25
1,3,5-Trimethybenzene	ND	5.00	ND	24.6		25
1,3-Butadiene	ND	5.00	ND	11.0		25
1,3-Dichlorobenzene	ND	5.00	ND	30.0		25
1,4-Dichlorobenzene	ND	5.00	ND	30.0		25
2-Butanone	149	5.00	440	14.7		25
Benzene	38.2	5.00	122	16.0		25
Benzyl chloride	ND	5.00	ND	25.9		25
Bromomethane	ND	5.00	ND	19.4		25
Carbon disulfide	ND	5.00	ND	15.6		25
Carbon tetrachloride	ND	5.00	ND	31.4		25
Chlorobenzene	ND	5.00	ND	23.0		25
Chloroethane	992	5.00	2620	13.2		25
Chloroform	ND	5.00	ND	24.4		25
Chloromethane	ND	5.00	ND	10.3		25

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-03
Client ID: GP-11
Sample Location: SOUTH KINGSTOWN, RI

Date Collected: 10/21/08 15:22
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	ND	5.00	ND	19.8		25
cis-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Cyclohexane	89.1	5.00	306	17.2		25
Dichlorodifluoromethane	456	5.00	2250	24.7		25
Ethylbenzene	ND	5.00	ND	21.7		25
Freon-113	ND	5.00	ND	38.3		25
Freon-114	265	5.00	1850	34.9		25
Hexachlorobutadiene	ND	5.00	ND	53.3		25
Methylene chloride	ND	12.5	ND	43.4		25
Methyl tert butyl ether	ND	5.00	ND	18.0		25
p/m-Xylene	ND	10.0	ND	43.4		25
o-Xylene	ND	5.00	ND	21.7		25
n-Hexane	279	5.00	982	17.6		25
Propylene	ND	5.00	ND	8.60		25
Styrene	ND	5.00	ND	21.3		25
Tetrachloroethene	ND	5.00	ND	33.9		25
Toluene	10.7	5.00	40.4	18.8		25
trans-1,2-Dichloroethene	ND	5.00	ND	19.8		25
trans-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Trichloroethene	ND	5.00	ND	26.8		25
Trichlorofluoromethane	ND	5.00	ND	28.1		25
Vinyl chloride	439	5.00	1120	12.8		25

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-04
Client ID: GP-21
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/31/08 01:57
Analyst: RY

Date Collected: 10/21/08 15:38
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.400	ND	2.18		2
1,1,2,2-Tetrachloroethane	ND	0.400	ND	2.74		2
1,1,2-Trichloroethane	ND	0.400	ND	2.18		2
1,1-Dichloroethane	ND	0.400	ND	1.62		2
1,1-Dichloroethene	ND	0.400	ND	1.58		2
1,2,4-Trichlorobenzene	ND	0.400	ND	2.97		2
1,2,4-Trimethylbenzene	ND	0.400	ND	1.96		2
1,2-Dibromoethane	ND	0.400	ND	3.07		2
1,2-Dichlorobenzene	ND	0.400	ND	2.40		2
1,2-Dichloroethane	ND	0.400	ND	1.62		2
1,2-Dichloropropane	ND	0.400	ND	1.85		2
1,3,5-Trimethybenzene	ND	0.400	ND	1.96		2
1,3-Butadiene	ND	0.400	ND	0.884		2
1,3-Dichlorobenzene	ND	0.400	ND	2.40		2
1,4-Dichlorobenzene	ND	0.400	ND	2.40		2
2-Butanone	10.0	0.400	29.6	1.18		2
Benzene	1.13	0.400	3.60	1.28		2
Benzyl chloride	ND	0.400	ND	2.07		2
Bromomethane	ND	0.400	ND	1.55		2
Carbon disulfide	1.74	0.400	5.43	1.24		2
Carbon tetrachloride	ND	0.400	ND	2.51		2
Chlorobenzene	ND	0.400	ND	1.84		2
Chloroethane	ND	0.400	ND	1.05		2
Chloroform	ND	0.400	ND	1.95		2
Chloromethane	1.55	0.400	3.20	0.825		2

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-04
Client ID: GP-21
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 10/21/08 15:38
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	ND	0.400	ND	1.58		2
cis-1,3-Dichloropropene	ND	0.400	ND	1.81		2
Cyclohexane	0.578	0.400	1.99	1.38		2
Dichlorodifluoromethane	0.773	0.400	3.82	1.98		2
Ethylbenzene	ND	0.400	ND	1.74		2
Freon-113	ND	0.400	ND	3.06		2
Freon-114	ND	0.400	ND	2.79		2
Hexachlorobutadiene	ND	0.400	ND	4.26		2
Methylene chloride	ND	1.00	ND	3.47		2
Methyl tert butyl ether	ND	0.400	ND	1.44		2
p/m-Xylene	ND	0.800	ND	3.47		2
o-Xylene	ND	0.400	ND	1.74		2
n-Hexane	2.20	0.400	7.76	1.41		2
Propylene	ND	0.400	ND	0.688		2
Styrene	ND	0.400	ND	1.70		2
Tetrachloroethene	ND	0.400	ND	2.71		2
Toluene	76.2	0.400	287	1.51		2
trans-1,2-Dichloroethene	ND	0.400	ND	1.58		2
trans-1,3-Dichloropropene	ND	0.400	ND	1.81		2
Trichloroethene	0.607	0.400	3.26	2.15		2
Trichlorofluoromethane	ND	0.400	ND	2.24		2
Vinyl chloride	ND	0.400	ND	1.02		2

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-05
Client ID: BACKGROUND-1
Sample Location: SOUTH KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/31/08 09:39
Analyst: RY

Date Collected: 10/21/08 13:46
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	0.283	0.200	0.835	0.589		1
Benzene	0.201	0.200	0.640	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.438	0.200	1.36	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.515	0.200	1.06	0.413		1

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747
Lab Number: L0815596
Report Date: 11/05/08

SAMPLE RESULTS

Lab ID: L0815596-05
Client ID: BACKGROUND-1
Sample Location: SOUTH KINGSTOWN, RI
Date Collected: 10/21/08 13:46
Date Received: 10/22/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	1.35	0.200	5.34	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	0.536	0.200	1.84	0.688		1
Dichlorodifluoromethane	0.427	0.200	2.11	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	9.68	0.200	65.6	1.36		1
Toluene	0.303	0.200	1.14	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	1.84	0.200	9.89	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl chloride	0.206	0.200	0.526	0.511		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0815596

Project Number: JI-1747 **Report Date:** 11/05/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/30/08 17:05

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-05 Batch: WG342095-3						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
2-Hexanone	ND	0.200	ND	0.819		1
3-Chloropropene	ND	0.200	ND	0.626		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	0.500	ND	1.19		1
Benzene	ND	0.200	ND	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0815596

Project Number: JI-1747 **Report Date:** 11/05/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/30/08 17:05

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-05 Batch: WG342095-3						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethanol	ND	2.50	ND	4.71		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0815596

Project Number: JI-1747 **Report Date:** 11/05/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/30/08 17:05

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-05 Batch: WG342095-3						
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Tetrahydrofuran	ND	0.200	ND	0.589		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl acetate	ND	0.200	ND	0.704		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG342095-2					
1,1,1-Trichloroethane	107	-	70-130	-	
1,1,2,2-Tetrachloroethane	106	-	70-130	-	
1,1,2-Trichloroethane	104	-	70-130	-	
1,1-Dichloroethane	94	-	70-130	-	
1,1-Dichloroethene	92	-	70-130	-	
1,2,4-Trichlorobenzene	121	-	70-130	-	
1,2,4-Trimethylbenzene	108	-	70-130	-	
1,2-Dibromoethane	93	-	70-130	-	
1,2-Dichlorobenzene	99	-	70-130	-	
1,2-Dichloroethane	94	-	70-130	-	
1,2-Dichloropropane	108	-	70-130	-	
1,3,5-Trimethylbenzene	103	-	70-130	-	
1,3-Butadiene	94	-	70-130	-	
1,3-Dichlorobenzene	100	-	70-130	-	
1,4-Dichlorobenzene	100	-	70-130	-	
1,4-Dioxane	**134**	-	70-130	-	
2,2,4-Trimethylpentane	104	-	70-130	-	
2-Butanone	120	-	70-130	-	
2-Hexanone	113	-	70-130	-	
3-Chloropropene	95	-	70-130	-	
4-Ethyltoluene	103	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG342095-2					
Acetone	104	-	70-130	-	
Benzene	101	-	70-130	-	
Benzyl chloride	94	-	70-130	-	
Bromodichloromethane	101	-	70-130	-	
Bromoform	90	-	70-130	-	
Bromomethane	82	-	70-130	-	
Carbon disulfide	91	-	70-130	-	
Carbon tetrachloride	100	-	70-130	-	
Chlorobenzene	98	-	70-130	-	
Chloroethane	95	-	70-130	-	
Chloroform	96	-	70-130	-	
Chloromethane	98	-	70-130	-	
cis-1,2-Dichloroethene	96	-	70-130	-	
cis-1,3-Dichloropropene	93	-	70-130	-	
Cyclohexane	97	-	70-130	-	
Dibromochloromethane	90	-	70-130	-	
Dichlorodifluoromethane	93	-	70-130	-	
Ethyl Alcohol	108	-	70-130	-	
Ethyl Acetate	**137**	-	70-130	-	
Ethylbenzene	112	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	90	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG342095-2					
1,2-Dichloro-1,1,2,2-tetrafluoroethane	94	-	70-130	-	
Hexachlorobutadiene	112	-	70-130	-	
iso-Propyl Alcohol	106	-	70-130	-	
Methylene chloride	87	-	70-130	-	
4-Methyl-2-pentanone	120	-	70-130	-	
Methyl tert butyl ether	102	-	70-130	-	
p/m-Xylene	106	-	70-130	-	
o-Xylene	101	-	70-130	-	
Heptane	102	-	70-130	-	
n-Hexane	106	-	70-130	-	
Propylene	87	-	70-130	-	
Styrene	99	-	70-130	-	
Tetrachloroethene	93	-	70-130	-	
Tetrahydrofuran	130	-	70-130	-	
Toluene	96	-	70-130	-	
trans-1,2-Dichloroethene	91	-	70-130	-	
trans-1,3-Dichloropropene	85	-	70-130	-	
Trichloroethene	103	-	70-130	-	
Trichlorofluoromethane	94	-	70-130	-	
Vinyl acetate	108	-	70-130	-	
Vinyl bromide	91	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ROSE HILL LANDFILL

Project Number: JI-1747

Lab Number: L0815596

Report Date: 11/05/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG342095-2					
Vinyl chloride	94	-	70-130	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG342095-4 QC Sample: L0815596-01 Client ID: GV-03					
1,1,1-Trichloroethane	64.1	59.8	ppbV	7	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	70.2	68.6	ppbV	2	25
1,1-Dichloroethene	60.6	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethybenzene	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
2-Butanone	ND	ND	ppbV	NC	25
Benzene	ND	ND	ppbV	NC	25
Benzyl chloride	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG342095-4 QC Sample: L0815596-01 Client ID: GV-03					
Carbon disulfide	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	588	572	ppbV	3	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	12300	12100	ppbV	2	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	130	125	ppbV	4	25
Dichlorodifluoromethane	103	97.6	ppbV	5	25
Ethylbenzene	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
n-Hexane	245	231	ppbV	6	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG342095-4 QC Sample: L0815596-01 Client ID: GV-03					
Propylene	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	227	ND	ppbV	NC	25
Toluene	60.9	61.2	ppbV	0	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	1720	1630	ppbV	5	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl chloride	11400	12100	ppbV	6	25

Project Name: ROSE HILL LANDFILL **Lab Number:** L0815596

Project Number: JI-1747 **Report Date:** 11/05/08

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0815596-01	GV-03	0029	#20 SV		-	-	9.8	10.3	5
L0815596-01	GV-03	205	2.7L Can	I0814435	-29.5	-0.7	-	-	-
L0815596-02	GV-09	0202	#20 SV		-	-	10.0	10.6	6
L0815596-02	GV-09	114	2.7L Can	I0814435	-29.5	-1.8	-	-	-
L0815596-03	GP-11	0262	#16 AMB		-	-	9.7	10.0	3
L0815596-03	GP-11	261	2.7L Can	I0814435	-29.5	-3.7	-	-	-
L0815596-04	GP-21	0205	#20 SV		-	-	9.6	9.9	3
L0815596-04	GP-21	382	2.7L Can	I0814435	-29.5	-5.9	-	-	-
L0815596-05	BACKGROUND-1	0227	#20 SV		-	-	9.9	10.2	3
L0815596-05	BACKGROUND-1	529	2.7L Can	I0814435	-29.5	-0.5	-	-	-

Project Name: ROSE HILL LANDFILL
Project Number: JI-1747

Lab Number: L0815596
Report Date: 11/05/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0815596-01A	Canister - 2.7 Liter	N/A	NA		NA	Absent	TO15-LL(30)
L0815596-02A	Canister - 2.7 Liter	N/A	NA		NA	Absent	TO15-LL(30)
L0815596-03A	Canister - 2.7 Liter	N/A	NA		NA	Absent	TO15-LL(30)
L0815596-04A	Canister - 2.7 Liter	N/A	NA		NA	Absent	TO15-LL(30)
L0815596-05A	Canister - 2.7 Liter	N/A	NA		NA	Absent	TO15-LL(30)
L0815596-06A	Canister - 2.7 Liter	N/A	NA		NA	Absent	CLEAN-FEE()

*Hold days indicated by values in parentheses

Project Name:	ROSE HILL LANDFILL	**Lab Number:**	L0815596
Project Number:	JI-1747	**Report Date:**	11/05/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified

Project Name: ROSE HILL LANDFILL **Lab Number:** L0815596
Project Number: JI-1747 **Report Date:** 11/05/08

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

11050816:59

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — *CHAIN OF CUSTODY*

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0815596

Client Information

Client: The Louis Berger Group, Inc.
Address: 295 Promenade St. Providence, RI 02908
Phone: 401. 521. 5980
Fax: 401. 331. 8956
Email: dganey@louisberger.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Rose Hill Landfill
Project Location: S. Kingstown, RI
Project #: JI-1747
Project Manager: ~~D.G~~ C. Feeney
ALPHA Quote #:

Turn-Around Time

☒ Standard 10 DAYS ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager) D. Ganey

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
per	QAPP	

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
L0815596-1	GV-03	10-21-08	959	1359	-30	<5	Air (SV)	DG		205	0029	X							
2	GV-09	↓	1024	1424	↓	↓	↓	↓		114	0202	X							
3	GP-11	↓	1122	1522	↓	↓	↓	↓		261	0262	X							
4	GP-21	↓	1138	1538	↓	↓	↓	↓		382	0205	X							
5	Background-1	10-21-08	946	1346	↓	↓	↓	↓	6L	~~0229~~ 529	0227	X							

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
[illegible]	10-21-08 / 1850	[illegible]	10/22/08 1100
[illegible]	10/22/08 1130	[illegible]	10/22/08 1130

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 (rev.1-Feb-08)

4th QUARTER

LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

Lab Number:	L0900847
Client:	Louis A. Berger & Associates, Inc. 295 Promenade Street Providence, RI 02908
ATTN:	Chris Feeney
Project Name:	ROSE HILL LANDFILL
Project Number:	J1-1747
Report Date:	02/02/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747

Lab Number: L0900847
Report Date: 02/02/09

Alpha Sample ID	Client ID	Sample Location
L0900847-01	FIELD BLANK	S. KINGSTOWN, RI
L0900847-02	GP-21	S. KINGSTOWN, RI
L0900847-03	GP-14	S. KINGSTOWN, RI
L0900847-04	GP-12	S. KINGSTOWN, RI
L0900847-05	GP-11	S. KINGSTOWN, RI

Project Name: ROSE HILL LANDFILL **Lab Number:** L0900847
Project Number: J1-1747 **Report Date:** 02/02/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

TO15-LL

L0900847-02 was re-analyzed due to over dilution of the original analysis. The results of the re-analysis are reported.

L0900847-03 and -04 have elevated detection limits due to the 10x dilution required by the elevated concentrations of target compounds in the sample.

L0900847-05 Sample was re-analyzed due to quality control failure on original analyis. Re-analysis reported.

Re-analysis of L0900847-05 and WG351561-4 Duplciate have elevated detection limits due to the 10x dilution required by the elevated concentrations of target compounds in the sample. The sample and Duplicate required re-analysis on a 25x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

Project Name:	ROSE HILL LANDFILL	**Lab Number:**	L0900847
Project Number:	J1-1747	**Report Date:**	02/02/09

Case Narrative (continued)

The WG351561-2 LCS recoveries for 1,2,4-Trichlorobenzene and Hexachlorobutadiene are outside the 70%-130% acceptance limit. The LCS was within overall method allowances, therefore the analysis proceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen M. O'Brien

Title: Technical Director/Representative Date: 02/02/09

AIR

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-01
Client ID: FIELD BLANK
Sample Location: S. KINGSTOWN, RI
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/30/09 17:12
Analyst: RY

Date Collected: 01/21/09 16:15
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	0.213	0.200	0.627	0.589		1
Benzene	0.270	0.200	0.860	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.710	0.200	1.46	0.413		1

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-01
Client ID: FIELD BLANK
Sample Location: S. KINGSTOWN, RI
Date Collected: 01/21/09 16:15
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dichlorodifluoromethane	0.451	0.200	2.23	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
n-Hexane	0.436	0.200	1.53	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl chloride	ND	0.200	ND	0.511		1

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-02 R
Client ID: GP-21
Sample Location: S. KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/31/09 02:54
Analyst: RY

Date Collected: 01/21/09 16:52
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	0.297	0.200	1.20	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	0.744	0.200	2.19	0.589		1
Benzene	0.342	0.200	1.09	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.202	0.200	0.629	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	0.227	0.200	0.600	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.225	0.200	0.464	0.413		1

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-02 R
Client ID: GP-21
Sample Location: S. KINGSTOWN, RI
Date Collected: 01/21/09 16:52
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	50.4	0.200	200	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	0.259	0.200	0.892	0.688		1
Dichlorodifluoromethane	0.590	0.200	2.91	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
n-Hexane	0.361	0.200	1.27	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Toluene	0.635	0.200	2.39	0.753		1
trans-1,2-Dichloroethene	0.323	0.200	1.28	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	17.1	0.200	92.0	1.07		1
Trichlorofluoromethane	0.208	0.200	1.17	1.12		1
Vinyl chloride	2.30	0.200	5.87	0.511		1

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-03
Client ID: GP-14
Sample Location: S. KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/30/09 18:23
Analyst: RY

Date Collected: 01/21/09 16:47
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	2.00	ND	10.9		10
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10
1,1-Dichloroethane	ND	2.00	ND	8.09		10
1,1-Dichloroethene	ND	2.00	ND	7.92		10
1,2,4-Trichlorobenzene	ND	2.00	ND	14.8		10
1,2,4-Trimethylbenzene	ND	2.00	ND	9.82		10
1,2-Dibromoethane	ND	2.00	ND	15.4		10
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10
1,2-Dichloroethane	ND	2.00	ND	8.09		10
1,2-Dichloropropane	ND	2.00	ND	9.24		10
1,3,5-Trimethybenzene	ND	2.00	ND	9.82		10
1,3-Butadiene	ND	2.00	ND	4.42		10
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10
2-Butanone	3.93	2.00	11.6	5.89		10
Benzene	24.2	2.00	77.3	6.38		10
Benzyl chloride	ND	2.00	ND	10.3		10
Bromomethane	ND	2.00	ND	7.76		10
Carbon disulfide	ND	2.00	ND	6.22		10
Carbon tetrachloride	ND	2.00	ND	12.6		10
Chlorobenzene	ND	2.00	ND	9.20		10
Chloroethane	210	2.00	552	5.27		10
Chloroform	ND	2.00	ND	9.76		10
Chloromethane	ND	2.00	ND	4.13		10

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-03
Client ID: GP-14
Sample Location: S. KINGSTOWN, RI
Date Collected: 01/21/09 16:47
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	19.1	2.00	75.7	7.92		10
cis-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Cyclohexane	127	2.00	437	6.88		10
Dichlorodifluoromethane	161	2.00	795	9.88		10
Ethylbenzene	ND	2.00	ND	8.68		10
Freon-113	ND	2.00	ND	15.3		10
Freon-114	99.3	2.00	693	14.0		10
Hexachlorobutadiene	ND	2.00	ND	21.3		10
Methylene chloride	ND	5.00	ND	17.4		10
Methyl tert butyl ether	ND	2.00	ND	7.20		10
p/m-Xylene	ND	4.00	ND	17.4		10
o-Xylene	ND	2.00	ND	8.68		10
n-Hexane	249	2.00	878	7.04		10
Propylene	ND	2.00	ND	3.44		10
Styrene	ND	2.00	ND	8.51		10
Tetrachloroethene	ND	2.00	ND	13.6		10
Toluene	6.25	2.00	23.5	7.53		10
trans-1,2-Dichloroethene	ND	2.00	ND	7.92		10
trans-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Trichloroethene	6.80	2.00	36.5	10.7		10
Trichlorofluoromethane	ND	2.00	ND	11.2		10
Vinyl chloride	4.22	2.00	10.8	5.11		10

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-04
Client ID: GP-12
Sample Location: S. KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/30/09 18:58
Analyst: RY

Date Collected: 01/21/09 16:58
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	2.00	ND	10.9		10
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10
1,1-Dichloroethane	84.9	2.00	343	8.09		10
1,1-Dichloroethene	ND	2.00	ND	7.92		10
1,2,4-Trichlorobenzene	ND	2.00	ND	14.8		10
1,2,4-Trimethylbenzene	ND	2.00	ND	9.82		10
1,2-Dibromoethane	ND	2.00	ND	15.4		10
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10
1,2-Dichloroethane	ND	2.00	ND	8.09		10
1,2-Dichloropropane	ND	2.00	ND	9.24		10
1,3,5-Trimethybenzene	ND	2.00	ND	9.82		10
1,3-Butadiene	ND	2.00	ND	4.42		10
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10
2-Butanone	ND	2.00	ND	5.89		10
Benzene	ND	2.00	ND	6.38		10
Benzyl chloride	ND	2.00	ND	10.3		10
Bromomethane	ND	2.00	ND	7.76		10
Carbon disulfide	ND	2.00	ND	6.22		10
Carbon tetrachloride	ND	2.00	ND	12.6		10
Chlorobenzene	ND	2.00	ND	9.20		10
Chloroethane	427	2.00	1120	5.27		10
Chloroform	ND	2.00	ND	9.76		10
Chloromethane	ND	2.00	ND	4.13		10

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-04
Client ID: GP-12
Sample Location: S. KINGSTOWN, RI
Date Collected: 01/21/09 16:58
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	34.8	2.00	138	7.92		10
cis-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Cyclohexane	59.9	2.00	206	6.88		10
Dichlorodifluoromethane	548	2.00	2710	9.88		10
Ethylbenzene	ND	2.00	ND	8.68		10
Freon-113	ND	2.00	ND	15.3		10
Freon-114	319	2.00	2230	14.0		10
Hexachlorobutadiene	ND	2.00	ND	21.3		10
Methylene chloride	ND	5.00	ND	17.4		10
Methyl tert butyl ether	ND	2.00	ND	7.20		10
p/m-Xylene	ND	4.00	ND	17.4		10
o-Xylene	ND	2.00	ND	8.68		10
n-Hexane	221	2.00	778	7.04		10
Propylene	ND	2.00	ND	3.44		10
Styrene	ND	2.00	ND	8.51		10
Tetrachloroethene	ND	2.00	ND	13.6		10
Toluene	ND	2.00	ND	7.53		10
trans-1,2-Dichloroethene	ND	2.00	ND	7.92		10
trans-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Trichloroethene	13.1	2.00	70.2	10.7		10
Trichlorofluoromethane	ND	2.00	ND	11.2		10
Vinyl chloride	12.8	2.00	32.7	5.11		10

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-05 R
Client ID: GP-11
Sample Location: S. KINGSTOWN, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/30/09 20:10
Analyst: RY

Date Collected: 01/21/09 17:02
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	2.00	ND	10.9		10
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10
1,1-Dichloroethane	95.3	2.00	385	8.09		10
1,1-Dichloroethene	ND	2.00	ND	7.92		10
1,2,4-Trichlorobenzene	ND	2.00	ND	14.8		10
1,2,4-Trimethylbenzene	ND	2.00	ND	9.82		10
1,2-Dibromoethane	ND	2.00	ND	15.4		10
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10
1,2-Dichloroethane	ND	2.00	ND	8.09		10
1,2-Dichloropropane	ND	2.00	ND	9.24		10
1,3,5-Trimethybenzene	ND	2.00	ND	9.82		10
1,3-Butadiene	ND	2.00	ND	4.42		10
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10
2-Butanone	11.0	2.00	32.4	5.89		10
Benzene	74.4	2.00	237	6.38		10
Benzyl chloride	ND	2.00	ND	10.3		10
Bromomethane	ND	2.00	ND	7.76		10
Carbon disulfide	ND	2.00	ND	6.22		10
Carbon tetrachloride	ND	2.00	ND	12.6		10
Chlorobenzene	ND	2.00	ND	9.20		10
Chloroethane	>1000	2	>2640	5.27		10
Chloroform	ND	2.00	ND	9.76		10
Chloromethane	ND	2.00	ND	4.13		10

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID: L0900847-05 R
Client ID: GP-11
Sample Location: S. KINGSTOWN, RI
Date Collected: 01/21/09 17:02
Date Received: 01/22/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air						
cis-1,2-Dichloroethene	57.9	2.00	229	7.92		10
cis-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Cyclohexane	192	2.00	659	6.88		10
Dichlorodifluoromethane	691	2.00	3410	9.88		10
Ethylbenzene	ND	2.00	ND	8.68		10
Freon-113	ND	2.00	ND	15.3		10
Freon-114	411	2.00	2870	14.0		10
Hexachlorobutadiene	ND	2.00	ND	21.3		10
Methylene chloride	ND	5.00	ND	17.4		10
Methyl tert butyl ether	ND	2.00	ND	7.20		10
p/m-Xylene	ND	4.00	ND	17.4		10
o-Xylene	2.22	2.00	9.62	8.68		10
n-Hexane	495	2.00	1740	7.04		10
Propylene	ND	2.00	ND	3.44		10
Styrene	ND	2.00	ND	8.51		10
Tetrachloroethene	ND	2.00	ND	13.6		10
Toluene	297	2.00	1120	7.53		10
trans-1,2-Dichloroethene	3.26	2.00	12.9	7.92		10
trans-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Trichloroethene	21.6	2.00	116	10.7		10
Trichlorofluoromethane	ND	2.00	ND	11.2		10
Vinyl chloride	436	2.00	1110	5.11		10

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747
Lab Number: L0900847
Report Date: 02/02/09

SAMPLE RESULTS

Lab ID:	L0900847-05 R2	Date Collected:	01/21/09 17:02
Client ID:	GP-11	Date Received:	01/22/09
Sample Location:	S. KINGSTOWN, RI	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	48,TO-15		
Analytical Date:	01/31/09 04:06		
Analyst:	RY		

	ppbV		ug/m3			
Parameter	**Results**	**RDL**	**Results**	**RDL**	**Qualifier**	**Dilution Factor**
Low Level Volatile Organic Compounds in Air						
Chloroethane	1130	5.00	2980	13.2		25

Project Name: ROSE HILL LANDFILL **Lab Number:** L0900847

Project Number: J1-1747 **Report Date:** 02/02/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/30/09 13:16

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-05 Batch: WG351561-3						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	ND	0.200	ND	0.589		1
Benzene	ND	0.200	ND	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1

Project Name: ROSE HILL LANDFILL **Lab Number:** L0900847

Project Number: J1-1747 **Report Date:** 02/02/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/30/09 13:16

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Low Level Volatile Organic Compounds in Air for sample(s): 01-05 Batch: WG351561-3						
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	0.200	ND	0.344		1
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl chloride	ND	0.200	ND	0.511		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747

Lab Number: L0900847
Report Date: 02/02/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG351561-2					
1,1,1-Trichloroethane	114	-	70-130	-	
1,1,2,2-Tetrachloroethane	108	-	70-130	-	
1,1,2-Trichloroethane	97	-	70-130	-	
1,1-Dichloroethane	97	-	70-130	-	
1,1-Dichloroethene	97	-	70-130	-	
1,2,4-Trichlorobenzene	**134**	-	70-130	-	
1,2,4-Trimethylbenzene	97	-	70-130	-	
1,2-Dibromoethane	94	-	70-130	-	
1,2-Dichlorobenzene	99	-	70-130	-	
1,2-Dichloroethane	87	-	70-130	-	
1,2-Dichloropropane	109	-	70-130	-	
1,3,5-Trimethylbenzene	94	-	70-130	-	
1,3-Butadiene	109	-	70-130	-	
1,3-Dichlorobenzene	96	-	70-130	-	
1,4-Dichlorobenzene	96	-	70-130	-	
2-Butanone	93	-	70-130	-	
Benzene	105	-	70-130	-	
Benzyl chloride	97	-	70-130	-	
Bromomethane	88	-	70-130	-	
Carbon disulfide	99	-	70-130	-	
Carbon tetrachloride	113	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747

Lab Number: L0900847
Report Date: 02/02/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG351561-2					
Chlorobenzene	102	-	70-130	-	
Chloroethane	100	-	70-130	-	
Chloroform	94	-	70-130	-	
Chloromethane	105	-	70-130	-	
cis-1,2-Dichloroethene	94	-	70-130	-	
cis-1,3-Dichloropropene	86	-	70-130	-	
Cyclohexane	108	-	70-130	-	
Dichlorodifluoromethane	98	-	70-130	-	
Ethylbenzene	89	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	94	-	70-130	-	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	98	-	70-130	-	
Hexachlorobutadiene	**139**	-	70-130	-	
Methylene chloride	101	-	70-130	-	
Methyl tert butyl ether	82	-	70-130	-	
p/m-Xylene	84	-	70-130	-	
o-Xylene	93	-	70-130	-	
n-Hexane	116	-	70-130	-	
Propylene	90	-	70-130	-	
Styrene	92	-	70-130	-	
Tetrachloroethene	105	-	70-130	-	
Toluene	96	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ROSE HILL LANDFILL

Project Number: J1-1747

Lab Number: L0900847

Report Date: 02/02/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 Batch: WG351561-2					
trans-1,2-Dichloroethene	98	-	70-130	-	
trans-1,3-Dichloropropene	73	-	70-130	-	
Trichloroethene	110	-	70-130	-	
Trichlorofluoromethane	100	-	70-130	-	
Vinyl chloride	104	-	70-130	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747

Lab Number: L0900847
Report Date: 02/02/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG351561-4 QC Sample: L0900847-05 Client ID: GP-11					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	95.3	98.2	ppbV	3	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethybenzene	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
2-Butanone	11.0	11.4	ppbV	4	25
Benzene	74.4	79.7	ppbV	7	25
Benzyl chloride	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747

Lab Number: L0900847
Report Date: 02/02/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG351561-4 QC Sample: L0900847-05 Client ID: GP-11					
Carbon disulfide	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	>1000	>1000	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	57.9	60.7	ppbV	5	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	192	207	ppbV	8	25
Dichlorodifluoromethane	691	673	ppbV	3	25
Ethylbenzene	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	411	398	ppbV	3	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	2.22	2.29	ppbV	3	25
n-Hexane	495	539	ppbV	9	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747

Lab Number: L0900847
Report Date: 02/02/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG351561-4 QC Sample: L0900847-05 Client ID: GP-11					
Propylene	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Toluene	297	344	ppbV	15	25
trans-1,2-Dichloroethene	3.26	3.26	ppbV	0	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	21.6	23.6	ppbV	9	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl chloride	436	444	ppbV	2	25
Low Level Volatile Organic Compounds in Air Associated sample(s): 01-05 QC Batch ID: WG351561-4 QC Sample: L0900847-05 Client ID: GP-11					
Chloroethane	1130	1260	ppbV	11	25

Project Name: ROSE HILL LANDFILL **Lab Number:** L0900847

Project Number: J1-1747 **Report Date:** 02/02/09

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0900847-01	FIELD BLANK	651	6.0L Can	I0817206	-29.2	2.8	-	-	-
L0900847-02	GP-21	0230	#20 AMB		-	-	21.4	17.8	18
L0900847-02	GP-21	639	6.0L Can	I0817206	-29.2	-4.2	-	-	-
L0900847-03	GP-14	0213	#16 AMB		-	-	21.8	23.0	5
L0900847-03	GP-14	1702	6.0L Can	I0819028	-29.2	2.1	-	-	-
L0900847-04	GP-12	0249	#30 SV		-	-	21.7	22.3	3
L0900847-04	GP-12	613	6.0L Can	I0817206	-29.1	1.0	-	-	-
L0900847-05	GP-11	0101	#30 SV		-	-	21.7	22.5	4
L0900847-05	GP-11	1578	6.0L Can	I0819028	-29.2	2.8	-	-	-

Project Name: ROSE HILL LANDFILL
Project Number: J1-1747

Lab Number: L0900847
Report Date: 02/02/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0900847-01A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-LL(30)
L0900847-02A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-LL(30)
L0900847-03A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-LL(30)
L0900847-04A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-LL(30)
L0900847-05A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-LL(30)

*Hold days indicated by values in parentheses

Project Name:	ROSE HILL LANDFILL	**Lab Number:**	L0900847
Project Number:	J1-1747	**Report Date:**	02/02/09

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Data Usability Report

Project Name: ROSE HILL LANDFILL **Lab Number:** L0900847
Project Number: J1-1747 **Report Date:** 02/02/09

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 7, 2009

The following list includes only those analytes/methods for which certification/approval is held.

For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Chloride, Fluoride, Sulfate, Sulfite, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), Total Cyanide, Bromide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Ignitability, Corrosivity, TCLP 1311, Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814.

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 365.2, EPA 150.1, 160.1, SM2540C, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 624, 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 9050, 7470, 7471, 9045, EPA 7.3.3.2, EPA 7.3.4.2, 9014, 9065. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015.

Non-Potable Water (Inorganic Parameters: SW-846 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

New York Department of Health Certificate/Lab ID: 11627.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299.

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. Registered Laboratory.

U.S. Army Corps of Engineers

Department of the Navy

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — *CHAIN OF CUSTODY*

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0900847

Client Information

Client: Louis Berger Group
Address: 295 Promenade St. Providence, RI 02908
Phone: (401) 521-5980
Fax: (401) 331-8956
Email: shogan@louisberger.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Roe Hill Landfill
Project Location: S. Kingstown, RI
Project #: J1-1747
Project Manager: Chris Feeny
ALPHA Quote #:

Turn-Around Time

☑ Standard (10 DAYS) ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☐ EMAIL (standard pdf report)
☐ Additional Deliverables: _____

Report to: (if different than Project Manager)

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
-1	Field Blank	1/21/09	12:10	16:15	-29.2		AA	SH	6L	651	N/A		1						
-2	6P-21	↓	12:26	16:52	-29.2		SV	↓	↓	639	0230		1						
-3	6P-14	↓	12:35	16:47	-29.2		↓	↓	↓	1702	0213		1						
-4	6P-12	↓	12:50	16:58	-29.1		↓	↓	↓	613	0249		1						
-5	6P-11	↓	12:55	17:02	-29.2		↓	↓	↓	1578	0101		1						

Container Type: 0

***SAMPLE MATRIX CODES**
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Relinquished By:	Date/Time	Received By:	Date/Time:
[illegible]	1/21/09	Paul Gilbert	1/22/09 11:20
Paul Gilbert	1/22/09 14:25	[illegible]	1/22/09 1425

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 (rev.1-Feb-08)

02020913:33

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number U0122-16

Prepared for:

Attn: Dan Lanier
Louis Berger Group
295 Promenade Street
Providence, RI 02908

Report Date: January 29, 2009
Reviewed By:

Richard Warila
Laboratory Director
Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 6

STATEMENTS/CERTIFICATIONS REQUIRED BY THE NATIONAL ENVIRONMENTAL LABORATORY APPROVAL CONFERENCE (NELAC)

New England Testing Laboratory is certified under the National Environmental Laboratory Approval Program (NELAP). This certification requires the following statements and certifications be included in our report.

This report shall not be reproduced, except in full, without written approval of the laboratory.

New England Testing certifies that the test results contained within this report meet all NELAC requirements except as detailed in the Case Narrative section of this report.

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on January 22, 2009. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. The case number for this sample submission is U0122-16.

Custody records are included in this report.

Site: Roe Hill Landfill/S. Kingstown, RI

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
MW-07-00	1/21/09	Water	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Methane, Ethane, Ethene	NA	GC/FID

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt:

No sample for ms/msd/duplicate analysis was supplied. No trip blank or field blank was supplied. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits.)

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

Methane, Ethane, Ethene:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. No anomalies or non-conformances were encountered during the analysis.

MW-07-00

Parameter	Result, mg/L	Reporting Limit, mg/L	Date Analyzed
Methane	6.70	0.015	01/27/2009
Ethane	0.072	0.028	01/27/2009
Ethene	N.D.	0.028	01/27/2009

N.D. = Not Detected

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Ave.
North Providence, RI 02904
1-888-863-8522

CHAIN OF CUSTODY RECORD

X 110122-16

PROJ. NO.: J1-1747

PROJECT NAME/LOCATION: Rose Hill Landfill / S. Kingstown, RI

CLIENT: Louis Berger Group

REPORT TO: Samantha Hogan

INVOICE TO: Elizabeth West

DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS: Alkanes						REMARKS
1/21/09	13:10		✓	MW-07-00	✓			4	HCL	4						

Sampled by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	1/21/09 13:10		
Relinquished by: (Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**
[signature]	1/22/09 9:00	Robert Lee	1/22/09 1500
Relinquished by: (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**	**Date/Time**
Robert Lee	1/22/09 1520	[signature]	1/22/09 1520

Laboratory Remarks:
Temp. received: _____
Cooled ☐

Special Instructions:
List Specific Detection Limit Requirements:

Turnaround (Business Days) _____

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number U0123-07

Prepared for:

Attn: Samantha Hogan
Louis Berger Group
295 Promenade Street
Providence, RI 02908

Report Date: January 29, 2009
Reviewed By:

Richard Warila
Laboratory Director
Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 6

STATEMENTS/CERTIFICATIONS REQUIRED BY THE NATIONAL ENVIRONMENTAL LABORATORY APPROVAL CONFERENCE (NELAC)

New England Testing Laboratory is certified under the National Environmental Laboratory Approval Program (NELAP). This certification requires the following statements and certifications be included in our report.

This report shall not be reproduced, except in full, without written approval of the laboratory.

New England Testing certifies that the test results contained within this report meet all NELAC requirements except as detailed in the Case Narrative section of this report.

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on January 23, 2009. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. The case number for this sample submission is U0123-07.

Custody records are included in this report.

Site: Roe Hill Landfill/S. Kingstown, RI

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
GP-11	1/22/09	Air	Table II
GV-04	1/22/09	Air	Table II
GP-07	1/22/09	Air	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Methane, Ethane, Ethene	NA	GC/FID

These methods are documented in:

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, (EPA/625/R-96/010b) (TO-14 etc.)

CASE NARRATIVE:

Sample Receipt:

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

Methane, Ethane, Ethene:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. No anomalies or non-conformances were encountered during the analysis.

GP-11

Parameter	Result, ppmv	Reporting Limit, ppmv	Date Analyzed
Methane	180,000	2,000	01/27/2009
Ethane	531	20.0	01/27/2009
Ethene	N.D.	20.0	01/27/2009

GV-04

Parameter	Result, ppmv	Reporting Limit, ppmv	Date Analyzed
Methane	560	20.0	01/27/2009
Ethane	N.D.	20.0	01/27/2009
Ethene	N.D.	20.0	01/27/2009

GP-07

Parameter	Result, ppmv	Reporting Limit, ppmv	Date Analyzed
Methane	344,000	2,000	01/27/2009
Ethane	178	20.0	01/27/2009
Ethene	N.D.	20.0	01/27/2009

ppmv = parts per million by volume
N.D. = Not Detected

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Ave.
North Providence, RI 02904
1-888-863-8522

CHAIN OF CUSTODY RECORD

W0123-07

PROJ. NO.: JI-1747
PROJECT NAME/LOCATION: Rose Hill Landfill / S. Kingstown, RI
CLIENT: Louis Berger Group
REPORT TO: Samantha Hogan
INVOICE TO: Elizabeth West

DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS: Alkanes						REMARKS
1/22/09	3:45		✓	GP-11			X	1	NONE	✓						
↓	4:07		✓	GV-04			X	1	NONE	✓						
↓	4:26		✓	GP-07			X	1	NONE	✓						

Sampled by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Guy DeBe	1/22/09 4:30		
Relinquished by: (Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**
Guy DeBe	1/23/09 1445	Robert Lee	1/23/09 1445
Relinquished by: (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**	**Date/Time**
Robert Lee	1-23-09 1510	Dawojuk	1/23/09

Laboratory Remarks:
Temp. received: _____
Cooled ☐

Special Instructions:
List Specific Detection Limit Requirements:

Turnaround (Business Days)_____