Environmental
Resources
Management

399 Boylston Street, 6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 (fax)

FILE COPY

7 September 2007
ERM Reference: 0051545

Brian Monahan
Conservation Administrator
Wayland Conservation Commission
Town Building
Wayland, MA 01778

Re: Inspection Report #6: 27 August through 7 September 2007,
Clean Fill Certification and Transmittal of Analytical Data
Former Raytheon Facility
430 Boston Post Road
DEP File No. 322-647

Dear Mr. Monahan:

Environmental Resources Management (ERM) is pleased to provide the Wayland Conservation Commission (Commission) with this Inspection Report for Northern Area Excavation activities at the Former Raytheon Facility at 430 Boston Post Road in Wayland, Massachusetts (Site). This report is submitted in accordance with the Order of Conditions for Massachusetts Department of Environmental Protection (DEP) File Number 322-647 dated 8 August 2006. Additionally, this report contains a clean fill certification and analytical laboratory data corresponding with sample results received during the past 10 days.

INSPECTION REPORT #6

Special Conditions 31 and 32 of the Town of Wayland Wetlands and Water Resources Permit Chapter 194 (Chapter 194) and Special Conditions 47 and 49 of Attachment A to the Wetlands Protection Act Form 5 Order of Conditions (WPA) require that a registered Professional Engineer perform weekly inspections of the work activities and certify in bi-weekly reports that those activities are in compliance with the Order of Conditions. The following information summarizes work performed between 27 August and 7 September 2007.

Work Performed During Period

On 27 August the down gradient ends of two existing potholes within the excavation were further excavated approximately 2 feet and confirmation samples were collected. Activities were performed in response to detections higher than the required cleanup goal (Inspection Report #5, ERM 24 August). The dewatering sump was relocated in the process to drain water from the area to be excavated.

On 28 August, loading for transportation and off-site disposal commenced. Nineteen truckloads (approximately 700 tons) were hauled from Stockpile E (Figure 1) to Turnkey Recycling and Environmental Enterprises (Turnkey), a Waste Management facility in Rochester, New Hampshire. A police detail oversaw the egress of trucks from the Site.

Concurrently, an additional 2 feet of material were removed from the southern pothole (DE1) within the cofferdam due to confirmatory sample results from 27 August (Inspection Report #5, Appendix C) exhibiting detections higher than the required cleanup standard. A third DE1 sample was collected from the bottom of the pothole. The northern pothole did not require further excavation. Excluding the vicinity of DE1, the excavation was backfilled to 107 feet (ft) above mean sea level (ASL) using material from Stockpile B (soil excavated from 125 ft to 121 ft ASL, cleared for reuse via analytical data).

On 29 August, seven truckloads (approximately 250 tons) from Stockpiles D and E were transported to Turnkey. A police detail oversaw the egress of trucks from the Site. Backfilling of the excavation continued, using soil from Stockpile B. Additionally, construction of the infiltration gallery began with the placement of geotextile fabric and a layer of ¾-inch crushed stone.

On 30 August, analytical results from the third DE1 sample (28 August; Inspection Report #5, Appendix C) revealed detections of chlorinated volatile organic compounds (CVOCs) above the required cleanup standard. Excavation activities continued in the vicinity of DE1 in 1-foot increments until a photoionization detector headspace reading returned no detection of organic vapors. This was achieved at approximately 99 ft ASL, where the fourth and final DE1 sample was collected.

On 31 August, approximately 8 cubic yards of soil were removed at 99 ft ASL in the area around DE1. Analytical results from the fourth sample (Appendix C) revealed no further exceedance of the required cleanup standard at DE1, and the area was backfilled.

On 4 September, construction of the infiltration gallery was completed and the surrounding area was backfilled with remaining material from Stockpile B and additional material from Stockpile C (soil excavated from 125 ft to 121 ft ASL, cleared for reuse via analytical data).

On 5 September, approximately 700 tons of material from Stockpiles D, E and F were transported to Turnkey. A police detail oversaw the egress of trucks from the site. Also, the excavation was backfilled with approximately 800 cubic yards of soil from Stockpile C and clean fill from the adjacent Wayland Commons project.

Backfilling within the excavation continued on 6 September to approximately 119 ft ASL with material from Wayland Commons and approximately 110 cubic yards from Stockpile A (soil excavated from ground surface to about 125 ft ASL and cleared for reuse via analytical data). Approximately 525 tons of soil from Stockpile F were transported to Turnkey.

The sheet piles were prepared for removal on 7 September by removing the hanger bars and strain gauges. Approximately 180 tons of material from Stockpiles F and H were transported to Turnkey. The parking lot was mechanically swept throughout the day to clean areas formerly occupied by stockpiles.

The addition of backfill on 4 September eliminated the need for any further dewatering. Water pumped from the excavation is still contained in four fractionation tanks on Site pending US EPA approval of a Notice of Change (NOC) to the open Remediation General Permit (RGP) authorization. The NOC will allow discharge directly to the Sudbury River rather than the wetland, using a higher dilution factor for naturally-occurring metals concentrations in the groundwater. Acceptance of the NOC will enable water treatment to continue without expending resources altering the treatment system.

Alicia Kabir conducted the Professional Engineer's inspections on 30 August and 7 September. No issues were identified during the Site visits.

In addition to the major activities detailed above, several other tasks were completed as required by the Order of Conditions:

- Daily inspections of the sedimentation controls have been performed. Records of these inspections are kept with the Daily Site Logs in Appendix B. Sufficient supplies of silt fence and straw bales are

maintained on Site to allow for corrective action and maintenance activities per WPA Condition 50 and Chapter 194 Condition 42.

- Equipment is being refueled in accordance with the Refueling Plan provided in the Response to Order of Conditions as stipulated in WPA Condition 39 and the Amendment to Refueling Plan provided in Inspection Report #3. Sufficient spill containment supplies are maintained at the refueling area and near each piece of heavy equipment.

Items Not in Conformance with Order of Conditions During Period

- Items on Site were in conformance with the Order of Conditions during this reporting period.

CLEAN FILL CERTIFICATION

As required by WPA Condition 52, clean fill used to replace the VOC-impacted soil removed from the excavation had been certified clean by ERM prior to use. The clean fill was obtained from the Wayland Commons development project adjacent to the Site and formerly part of the Raytheon property. The soil was generated by grading activities conducted prior to improving the property. The property owner's mailing address is:

Mr. Robert Schelmerdeine
Wayland Meadows Limited Partnership
c/o Levco, Inc.
145 Rosemary Street
Needham, MA 02494

The optional analytical testing outline in WPA Condition 52 was conducted because of the proximity of the source property to the current project Site. Six samples were collected from the source stockpile on 23 August and submitted to Alpha Woods Hole Labs of Westborough, Massachusetts. The samples were analyzed for the following compounds per Table 1 of DEP Policy #COMM-97-001, "Reuse and Disposal of Contaminated Soil at Massachusetts Landfills" as referenced by WPA Condition 52:

- VOCs by US EPA Method 8260;

- Polychlorinated biphenyls (PCBs) by US EPA method 8082;
- Semi-volatile organic compounds (SVOCs) by US EPA method 8270C;
- Total petroleum hydrocarbons (TPH) by US EPA method GC-DRO; and
- Total metals: arsenic, cadmium, chromium, lead, and mercury.

Table 1 of DEP Policy #COMM-97-001 also includes analyses for conductivity and Toxic Characteristic Leaching Procedure (TCLP). Conductivity was not analyzed because of the dry, sandy nature of the soil (see grain size distribution analyses in Inspection Report #5). TCLP analyses were only to be performed if significant concentrations of any the compounds were detected.

Table 1 summarizes the results of these analyses and compares them to Massachusetts Contingency Plan (MCP) Reportable Concentrations (RCS-1), Method 1 soil standards (S-2 & GW-1) and the soil conditions existing prior to excavation. No VOCs, SVOCs, PCBs, or TPH were detected in any of the samples. Naturally-occurring arsenic, chromium, and lead were detected in each sample at levels similar to those identified in the soil samples collected from the excavation area prior to the commencement of excavation activities. Based on these data, the soil was determined to be suitable for use as clean fill.

The corresponding laboratory analytical reports for these samples were transmitted with Inspection Report #5 with the exception of the results of VOCs analyses. Those results are included in Appendix C of this report.

TRANSMITTAL OF ANALYTICAL DATA

As required by Chapter 194 Condition 24, analytical laboratory reports received in the past 10 days are attached as Appendix C. Laboratory reports include results from:

- Waste characterization samples from Stockpiles I and J collected on 21 August and 4 September;
- VOC results from clean fill certification samples collected 23 August; and

- Confirmation sample DE1 from the bottom of the southern pothole collected on 30 August.

ERM will continue to comply with the Order of Conditions and will inform the Commission of any significant deviations of schedule or work plan.

If you have any questions or comments please contact the undersigned at (617) 646-7800.

Sincerely,

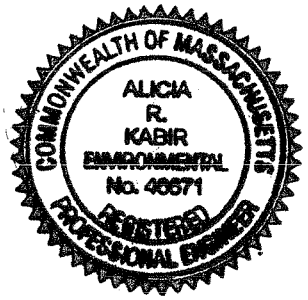
Jeremy J. Picard, P.G.
Senior Project Manager

Jason D. Flattery
Project Engineer

Enclosures:	Table 1	Clean Fill Analytical Results
	Figure 1	Stockpile Locations
	Appendix A	Site Photographs
	Appendix B	Daily Site Logs: 27 August to 7 September 2007
	Appendix C	Analytical Laboratory Reports

Cc: Louis Burkhardt, Raytheon Company
Public Repositories
Ben Gould, CMG Environmental

As required by WPA Conditions 47 and 49 and Chapter 194 Conditions 31 and 32, I certify based on my observations during Site visits on 30 August and 7 September 2007 and conversations with ERM field representatives that, to the best of my knowledge, work (except for any exceptions noted above) has been conducted in accordance with the Order of Conditions for DEP File Number 322-647.



Alicia Kabir, P.E.
Professional Engineer
MA License #46671

Tables

Table 1
Clean Fill Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Parameter	Date Collected	Reportable Concentration RCS-1	MCP Method 1 Soil Standard S-2 & GW-1	Pre-Excavation Soil Conditions (average[1])	Clean Fill From Adjacent Property					
					CF-1	CF-2	CF-3	CF-4	CF-5	CF-6
					23-Aug-07	23-Aug-07	23-Aug-07	23-Aug-07	23-Aug-07	23-Aug-07
Volatile Organic Compounds (µg/kg)										
Tetrachloroethene		1,000	1,000	816.7	< 4.6	< 4.8	< 4.8	< 4.6	< 4.8	< 5.0
Trichloroethene		300	300	**8,505**	< 4.6	< 4.8	< 4.8	< 4.6	< 4.8	< 5.0
cis-1,2-Dichloroethene		300	300	**522.9**	< 4.6	< 4.8	< 4.8	< 4.6	< 4.8	< 5.0
Semi-Volatile Organic Compounds (µg/kg)		NS	NS	ND	ND	ND	ND	ND	ND	ND
Petroleum Hydrocarbons (mg/kg)		200	200	ND[2]	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (mg/kg)		2	2	ND	ND	ND	ND	ND	ND	ND
Metals (mg/kg)										
Arsenic		20	20	5.3	6.4	6.3	5.5	5.4	6.0	5.8
Cadmium		2	30	ND	< 0.42	< 0.42	< 0.42	< 0.41	< 0.42	< 0.45
Chromium		30	200	16.0	10	9.5	8.1	8.6	9.1	11
Lead		300	300	5.5	7.4	4.0	3.1	3.4	6.5	4.7
Mercury		20	30	ND	< 0.08	< 0.08	< 0.08	< 0.08	< 0.09	< 0.09

Notes:

Only compounds with detectable results are tabulated.

µg/kg = Micrograms per kilogram (parts per billion [ppb]).

mg/kg = Milligrams per kilogram (parts per million [ppm]).

1 = Values reported as Pre-Excavation Soil Conditions are averages from samples SB-515, SB-522, SB-522A, SB-528, SB-530A, & SB-534B

2 = Pre-Excavation Soil Conditions analyzed for extractable petroleum hydrocarbons.

Figures

Draft

Clean Soil Staging Area

G

A

Limits of Disturbance

Limits of Source Area Excavation

Straw Bales and Silt Fencing Around Wet Pocket

Decon Area

Bordering Vegetated Wetland

Area to be Impacted by Support Activities

Straw Bales and Silt Fencing

Existing Gravel Roadway to Support Construction Related Vehicles

100 ft Buffer Zone

Edge of Pavement

Clean

C

B

Water Treatment System

Temporary Water Line

Refueling Area

Catch Basin

Office Trailers

Asphalt Paved Parking Area

Storage Container

Decon Area

H

F

E

D

I

J

N

SCALE

25' 0 25' 50' 100'

LEGEND:

- Monitoring Well/ Cluster Location
- Waterloo Profiler Location
- Soil Boring Location
- MIP Boring Location
- Existing Building
- Straw Bales
- Property Line
- Standing Water Based on 2001 Aerial
- Delineated Wetland Boundary
- 100' Wetland Buffer Zone
- 100 Year Floodplain
- Treeline

Figure 1 - Stockpile Locations
Former Raytheon Facility - Wayland, MA

ERM

Appendix A
Site Photographs

Photograph 1 – Loading Trucks for Off-Site Disposal

Photograph 2 – Final Area Excavated

File Path

Photograph 3 – Installation of Infiltration Gallery in Western Portion of Excavation

Photograph 4 – Backfilling Excavation

Photograph 5 – Sweeping Parking Lot and Former Soil Staging Areas

Photograph 6 – Backfilled to Approximately 119' ASL

Appendix B
Daily Site Logs:
27 August – 7 September

DAILY SITE LOG
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

Date: 8/27/07

Start Time: 07:00 End Time: 15:30

Personnel

ERM: Bahaar Massihzadegan, Jason Flatley, John Drobinski

Other Personnel: MT: CJones, DSyriac, RMargiardi TPisanelli
Union: BMcCarthy, IHackett, AZavin, JMutd
Newton Trucking: RePacca

Visitors: K. Hartman (Hartman Engineering)
Jim Occhialini (Alpha Analytical)

Equipment On Site

Type	Make/Model ~~Operating Company~~	#	Operating Co. ~~Number~~
Loader	Komatsu WA 380	-	MT
Excavator	Caterpillar 307,330,345	-51,75	
Generator	MQ Power Whisperwatt	16,14	
Welder	Lincoln 250	29	
Water Treatment System		45	
Sweeper	Elgin Premier Pelican	-	Sanlon
Dump Truck	Mack Truck 10-wheeler	Vaca #77	Newton Trucking

Describe Activities:

Collected samples from excavation. 2 "potholes" were dug in the area of CD23 and DE1. Sump was installed at greater depth.

EROSION AND SEDIMENTANTION CONTROL INSPECTION

Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

8/27/07

Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	NO
If yes, was it removed and how? Please describe below.	N/A
Is there evidence of erosion along access road?	NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed): JASON FLATTERY

(Signature):

DAILY SITE LOG
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

Date: 8/28/07

Start Time: 06:30 End Time: 15:30

Personnel

ERM: JFLATTERY, BMASSIHZADEGAN, JPICARD

Other Personnel: MT: CJONES, RMANGIARDI, DSYRIACZ
UNION: BMCCARTHY, THACKETT, AZAIM, JMUTO
AMERITECH ENVI (OFF-SITE TRUCKING)

Visitors: TAYLOR FREE, Newton Trucking, HANDY HOUSE

Equipment On Site

Type	Operating Company (Model)		Number
LOADER	KOMATSU WA380	MT	
EXCAVATOR	CATERPILLAR 307, 330, 345		
GENERATOR	MQ POWER WHISPERWATT		
WELDER	LINCOLN 250		
WATER TREATMENT SYSTEM			
SWEEPER	ELGIN PREMIER PELICAN	SCANLON	
DUMP TRUCK / TRAILER TRUCK	AMERITECH ENVIRONMENTAL	NEWTON TRUCKING	RE VACCA #77 VARIOUS

Describe Activities:

19 truckloads of soil from SP-E removed and transported to Turnkey in Rochester, NH

EROSION AND SEDIMENTANTION CONTROL INSPECTION

Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

8/23/07

ERM

Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	NO
If yes, was it removed and how? Please describe below.	N/A
Is there evidence of erosion along access road?	NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed): JASON FLATTERY

(Signature):

DAILY SITE LOG
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

Date: 8/29/07

Start Time: 06:30 End Time: 15:15

Personnel

ERM: Jason Flattery, Holly Arzenberger, Jeremy Picard, John Drobinski

Other Personnel: MT: Chris Jones, Dick Syriac, Rick Mangiardi
Union: Bill McCarthy, Abdelghani Zaimi, Ivan Hackett, Joe Muto
Newton Trucking (RE Vacca #77)
AmeriTech Environmental (off-site trucking)

Visitors: Tony Pisanelli (MT), Scanlon Sweeper, Andrea Telford (MT)

Equipment On Site

Type	~~Operating Company~~ Make/Model	#	~~Number~~ Operating Co.
Loader	Komatsu WA380	—	MT
Excavator	Cat 330, 345, 307	51, 75, -	
Generator	MQ Power WhisperWatt	14, 16	
Welder	Lincoln 250	29	
Water Treatment	—	45	
Sweeper	Elgin Premier Pelican	—	Scanlon
Dump Truck	Mack Truck Ten-Wheeler	RE Vacca #77	Newton Trucking &
Trailer Truck	See truck log →		AmeriTech Environmental

Describe Activities:

7 truckloads from E (finished pile) and D. 13 truckloads from Stockpile B were backfilled into the excavation. Parking lot was Sweeped

EROSION AND SEDIMENTANTION CONTROL INSPECTION

Northern Area Excavation

Former Raytheon Facility

Wayland, Massachusetts

8/29/07

Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	No
If yes, was it removed and how? Please describe below.	N/A
Is there evidence of erosion along access road?	NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed): JASON FLATTERY

(Signature):

DAILY SITE LOG
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

Date: 8/30/07

Start Time: 06:30 End Time: 15:00

Personnel

ERM: Bahaar Massihzadegan, Holly Arzenberger, Alicia Kabir, John Drobinski

Other Personnel: MT: C Jones, D Syriac, R Mongiardi
Union: B McCarthy, A Zain, T Hackett, J Muto
Newton Trucking: Re Varra

Visitors: Chris Jones (Haley + Aldrich), Chip Burkhardt, Andrea Telford (MT), Taylor Fuel Oil (Delivery), Fed Ex (Delivery)

Equipment On Site

Type	~~Operating Company~~ Make/Model	#	~~Up Co.~~ Number
Loader	Komatsu WA 380	-	MT
Excavator	Cat 330, 345, 307	51, 75, -	
Generator	MQ Power Whisperwatt	14, 16	
Welder	Lincoln 250	29	
Water Treatment System		45	
Sweeper	Elgin Premier Pelican	-	Stanton
Dump Truck	Mack truck 10-wheeler Re Varra #44		Newton Trucking

Describe Activities:

Installation of 3/4" crushed stone for infiltration gallery, some backfill from stockpile B used to grade excavation to 107' asl. One sample collected from excavation at 99' asl. Soil staged in Area K.

EROSION AND SEDIMENTANTION CONTROL INSPECTION

Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

8/30

ERM

Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	NO
If yes, was it removed and how? Please describe below.	N/A
Is there evidence of erosion along access road?	NO
If yes, please describe below.	

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed): BAHAAR MASSIHZADEHAN

(Signature):

DAILY SITE LOG
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

Date: 8/31/07

Start Time: 06:00 End Time: 14:00

Personnel

ERM: BMassihzadegan, HAmzenberger, CRegan, JFlattery

Other Personnel: MT: CJones, DSyrial, RMangardi
Union: BMcCarthy, AZain, JHackett, JMuto
Newton Trucking: R. Vacca

Visitors: Chris Jones (Haley+Aldrich) and drilling crew

Equipment On Site

Type	~~Make/Model Operating Company~~	#	~~Op. Co. Number~~
Loader	Komatsu WA380	-	MT
Excavator	Caterpillar 330, 345, 307	51, 75, -	↓
Generator	MQ Power Unisperm#	14, 16	
Welder	Lincoln 250		
Water Treatment System		45	
Sweeper	Elgin Premier Pelican	-	Scanlon
Dump Truck	Mack Truck 10 wheeler	ReVacca #44	Newton Trucking

Describe Activities:

Soil in vicinity of DE1 is removed at ~99 asl in 5' surrounding circle. Infiltration gallery is assembled on top of ~3' of crushed stone, initial layer of piping is assembled.
Note: Soil removed from DE1 is staged in Area K.

EROSION AND SEDIMENTANTION CONTROL INSPECTION

Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

8/31

ERM

Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	NO
If yes, was it removed and how? Please describe below.	N/A
Is there evidence of erosion along access road?	NO
If yes, please describe below.	

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed): Bahaar Masshzadegan

(Signature): B

DAILY SITE LOG
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

Date: 9/4/07

Start Time: 07:00 End Time: 16:15

Personnel

ERM: BMassihzadegan, ~~JFlaherty~~, HArzenberger, JDombinski

Other Personnel: MT: CJones, DSyriac, RMangiardi
Union: BMcCarthy, AZaim, THackett, JMuto
Newton Trucking: Re Vacca

Visitors: Taylor Fuel Oil, J. Dichilini (Alpha), Haley + Aldrich (Drilling team)

Equipment On Site

Type	~~Operating Company~~ MAKE/MODEL	#	~~Number~~ Op. Co.
Loader	Komatsu WA380	-	MT
Excavator	Caterpillar 330, 345, 307	51, 75, -	
Generator	MQ Power Whisperwatt	14, 16	
Welder	Lincoln 250		
Water Treatment	System	45	
Sweeper	Elgin Premier Pelican	-	Scanlon
Dump Truck	Mack Truck 10-wheeler	Re Vaca #44	Newton Trucking

Describe Activities:

Infiltration gallery is covered with additional crushed stone and backfill is loaded into excavation from Stockpile C. Installation of additional sump.

EROSION AND SEDIMENTANTION CONTROL INSPECTION

Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

9/4/07

ERM

Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	NO
If yes, was it removed and how? Please describe below.	N/A
Is there evidence of erosion along access road?	NO
If yes, please describe below.	

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed): Bahaar Massihzadegan

(Signature): Bahaar Massihzadegan

DAILY SITE LOG
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

Date: 9/5/07

Start Time: 06:00 End Time: 16:30

Personnel

ERM: BMassihzadegan, JFlattery, HAnzenberger, JPicard

Other Personnel: MT: CJones, DSyriac, RMangardi
Union: BMcCarthy, AZaim, IHackett, JMuto
Newton Trucking: RePacca, WalScot

Visitors: Trucks transporting soil offsite (toTunkey, Rochester, NY).,
Louis Burkhardtt, Tony Pisanelli (ART)

Equipment On Site

Type	~~Operating Company~~ MAKE/MODEL	#	~~Number~~ Op.Co.
Loader	Komatsu WA380	-	MT
Excavator	Caterpillar 330, 345, 307	51, 75, -	
Generator	MQ Power Whisperwatt	14, 16	
Welder	Lincoln 250		
Water Treatment System		45	
Sweeper	Elgin Premier Pelican	-	Scanlon
Dump Truck	Mack Truck 10wheeler		Newton Trucking

Describe Activities:

Transportation and Disposal of Stockpile D, E, and F to Tunkey in Rochester, NH. Backfilling coffedam with 33 loads from Intrada and 11 truckloads from Stockpile C. Sweeping parking lot.

EROSION AND SEDIMENTANTION CONTROL INSPECTION

Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

9/5/07

ERM

Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	NO
If yes, was it removed and how? Please describe below.	N/A
Is there evidence of erosion along access road?	NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed): Bahaar Massihzadegan

(Signature):

DAILY SITE LOG
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

Date: 9/6/07

Start Time: 06:30 End Time: 15:30

Personnel

ERM: BMassihzadegan, HAmzenberger, JFlattery

Other Personnel: MT: CJones, DSyriac, RMorgiardi
Union: BMcCarthy, AZaim, JHackett, JMuto

Visitors: Trucks transporting soil offsite to Turnkey (Rochester, NH), Taylor Oil Co. (Delivery).

Equipment On Site

Type	~~Operating Company~~ MAKE/MODEL	#	~~Op. Co.~~ Number
Loader	Komatsu WA 380	-	MT
Excavator	Caterpillar 330, 345, 307	5, 7, 5 -	
Generator	MQ Power Whisperwatt	14, 16	
Welder	Lincoln 250		
Water Treatment	System	45	
Sweeper	Elgin Premier Pelican	-	Scanlon
Dump Truck	Mack Truck 10-wheeler		Newton Trucking

Describe Activities:

Continued backfilling of excavation using imported soil and soil from Stockpile A ~108 yd³. 15 truckloads were taken from stockpile F and disposed of at Turnkey in Rochester, NH.

EROSION AND SEDIMENTANTION CONTROL INSPECTION

Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

9/6/07

ERM

Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	NO
If yes, was it removed and how? Please describe below.	NA
Is there evidence of erosion along access road?	NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed): Bahaar Massihzadegan

(Signature):

DAILY SITE LOG
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

ERM

Date: 9/7/07

Start Time: 06:00 End Time: 14:06

Personnel

ERM: BMassihzadegan; HAnzenberger

Other Personnel: MT: CJones, DSyriac, RMangiordi
Union: BMcCarthy, AZaim, JHackett, JMuto

Visitors: Trucks transporting soil offsite to Turnkey (Raneste, NH)

Equipment On Site

Type	~~Operating Company~~ MAKE/MODEL	#	~~OP. CO.~~ Number
Loader	Komatsu WA 380	-	MT
Excavator	Caterpillar 330, 345, 307	51, 75, -	
Generator	MQ Power Whisperwatt	14, 16	
Welder	Lincoln 250		
Water Treatment System		45	
Sweeper	Elgin Premier Pelican	-	Scenlon

Describe Activities: 6 TRUCKLOADS ~30 ton ea. (BM)
T&D of Stockpile F and H. B Detailing hanger bars from sheetpile in preparation for pulling the sheetpile

EROSION AND SEDIMENTANTION CONTROL INSPECTION
Northern Area Excavation
Former Raytheon Facility
Wayland, Massachusetts

9/7/07

ERM

Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	NO
If yes, was it removed and how? Please describe below.	N/A
Is there evidence of erosion along access road?	NO
If yes, please describe below.	

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed): Bahaar Massihzadegan

(Signature):

Appendix C
Analytical Laboratory Reports

Clean Fill Certification Samples:
23 August
Confirmation Samples:
30 August
Stockpile Samples:
20 & 21 August and
4 September

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: ERM-New England

Address: 399 Boylston Street
6th Floor
Boston, MA 02116

Attn: Jeremy Picard

Project Number: 0051545

Laboratory Job Number: L0712631

Date Received: 22-AUG-2007

Date Reported: 11-SEP-2007

Delivery Method: Alpha

Site: NA SOIL INVESTIGATION

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0712631-01	SP-I1-20070821-01	RAYTHEON WAYLAND
L0712631-02	SP-I2-20070821-01	RAYTHEON WAYLAND
L0712631-03	SP-I3-20070821-01	RAYTHEON WAYLAND
L0712631-04	SP-I4-20070821-01	RAYTHEON WAYLAND
L0712631-05	SP-I5-20070821-01	RAYTHEON WAYLAND
L0712631-06	SP-I6-20070821-01	RAYTHEON WAYLAND
L0712631-07	SP-J1-20070821-01	RAYTHEON WAYLAND
L0712631-08	SP-J2-20070821-01	RAYTHEON WAYLAND
L0712631-09	SP-J3-20070821-01	RAYTHEON WAYLAND
L0712631-10	SP-J4-20070821-01	RAYTHEON WAYLAND
L0712631-11	SP-J5-20070821-01	RAYTHEON WAYLAND
L0712631-12	SP-J6-20070821-01	RAYTHEON WAYLAND

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: _____
Technical Representative

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0712631

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.

TCLP Semivolatile Organics

The WG292864-4 MS/MSD RPD for Pyridine is above method acceptance criteria.

TCLP Pesticides

The WG293042-4 MS/MSD RPD for Heptachlor is above method acceptance criteria.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-01
SP-I1-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:05
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

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

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:15	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:15	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:15	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:15	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:15	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:25	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:15	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:15	MG
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0908 20:21	HL
TCLP Extraction				1	1311	0823 17:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	50.0	%	21-120					
Phenol-d6	57.0	%	10-120					
Nitrobenzene-d5	57.0	%	23-120					
2-Fluorobiphenyl	56.0	%	43-120					
2,4,6-Tribromophenol	64.0	%	10-120					
4-Terphenyl-d14	72.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 14:47	SS
TCLP Extraction				1	1311	0823 17:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-01
SP-I1-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0905 18:45	0907 14:47	SS
TCLP Extraction				1	1311	0823 17:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	59.0	%	30-150					
Decachlorobiphenyl	68.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0910 18:43	JB
TCLP Extraction				1	1311	0823 17:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	73.0	%						
TCLP PCBs by GC				1	8082	0905 20:30	0907 13:51	SS
TCLP Extraction				1	1311	0823 17:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	66.0	%	30-150					
Decachlorobiphenyl	88.0	%	30-150					
TCLP Volatile Organics				1	8260B		0907 10:41	SE
TCLP Extraction				1	1311	0904 16:38		
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
Tetrachloroethene	ND	ug/l	5.0					
Chlorobenzene	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	5.0					
Benzene	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	10.					
1,1-Dichloroethene	ND	ug/l	5.0					
Trichloroethene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	25.					
2-Butanone	ND	ug/l	50.					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	105	%	70-130					
Toluene-d8	97.0	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-01
SP-I1-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Volatile Organics cont'd				1	8260B		0907 10:41	SE
TCLP Extraction				1	1311	0904 16:38		
4-Bromofluorobenzene	102	%	70-130					
Dibromofluoromethane	101	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-02
SP-I2-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:10
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

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

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:28	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:28	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:28	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:28	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:28	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:27	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:28	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:28	MG
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0908 20:51	HL
TCLP Extraction				1	1311	0823 17:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	52.0	%	21-120					
Phenol-d6	59.0	%	10-120					
Nitrobenzene-d5	60.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	69.0	%	10-120					
4-Terphenyl-d14	80.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 15:16	SS
TCLP Extraction				1	1311	0823 17:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-02
SP-I2-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0905 18:45	0907 15:16	SS
TCLP Extraction				1	1311	0823 17:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	60.0	%	30-150					
Decachlorobiphenyl	70.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0910 19:33	JB
TCLP Extraction				1	1311	0823 17:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	78.0	%						
TCLP PCBs by GC				1	8082	0905 20:30	0907 14:20	SS
TCLP Extraction				1	1311	0823 17:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	55.0	%	30-150					
Decachlorobiphenyl	86.0	%	30-150					
TCLP Volatile Organics				1	8260B		0907 11:18	SE
TCLP Extraction				1	1311	0904 16:38		
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
Tetrachloroethene	ND	ug/l	5.0					
Chlorobenzene	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	5.0					
Benzene	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	10.					
1,1-Dichloroethene	ND	ug/l	5.0					
Trichloroethene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	25.					
2-Butanone	ND	ug/l	50.					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	105	%	70-130					
Toluene-d8	97.0	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-02
SP-I2-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Volatile Organics cont'd				1	8260B		0907 11:18	SE
TCLP Extraction				1	1311	0904 16:38		
4-Bromofluorobenzene	100	%	70-130					
Dibromofluoromethane	101	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-03
SP-I3-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:15
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

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

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:31	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:31	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:31	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:31	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:31	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:29	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:31	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:31	MG
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0908 21:22	HL
TCLP Extraction				1	1311	0823 17:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	57.0	%	21-120					
Phenol-d6	65.0	%	10-120					
Nitrobenzene-d5	66.0	%	23-120					
2-Fluorobiphenyl	65.0	%	43-120					
2,4,6-Tribromophenol	77.0	%	10-120					
4-Terphenyl-d14	79.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 15:44	SS
TCLP Extraction				1	1311	0823 17:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-03
SP-I3-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0905 18:45	0907 15:44	SS
TCLP Extraction				1	1311	0823 17:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	60.0	%	30-150					
Decachlorobiphenyl	71.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0910 20:22	JB
TCLP Extraction				1	1311	0823 17:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	71.0	%						
TCLP PCBs by GC				1	8082	0905 20:30	0907 14:48	SS
TCLP Extraction				1	1311	0823 17:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	72.0	%	30-150					
Decachlorobiphenyl	88.0	%	30-150					
TCLP Volatile Organics				1	8260B		0907 11:55	SE
TCLP Extraction				1	1311	0904 16:38		
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
Tetrachloroethene	ND	ug/l	5.0					
Chlorobenzene	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	5.0					
Benzene	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	10.					
1,1-Dichloroethene	ND	ug/l	5.0					
Trichloroethene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	25.					
2-Butanone	ND	ug/l	50.					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	109	%	70-130					
Toluene-d8	96.0	%	70-130					

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

Laboratory Sample Number: L0712631-03
SP-I3-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Volatile Organics cont'd				1	8260B		0907 11:55	SE
TCLP Extraction				1	1311	0904 16:38		
4-Bromofluorobenzene	97.0	%	70-130					
Dibromofluoromethane	102	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-04
SP-I4-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:20
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

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

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:33	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:33	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:33	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:33	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:33	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:38	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:33	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:33	MG
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0908 21:53	HL
TCLP Extraction				1	1311	0823 17:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	48.0	%	21-120					
Phenol-d6	55.0	%	10-120					
Nitrobenzene-d5	57.0	%	23-120					
2-Fluorobiphenyl	54.0	%	43-120					
2,4,6-Tribromophenol	69.0	%	10-120					
4-Terphenyl-d14	70.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 16:13	SS
TCLP Extraction				1	1311	0823 17:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-04
SP-I4-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0905 18:45	0907 16:13	SS
TCLP Extraction				1	1311	0823 17:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	58.0	%	30-150					
Decachlorobiphenyl	67.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0910 21:11	JB
TCLP Extraction				1	1311	0823 17:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	67.0	%						
TCLP PCBs by GC				1	8082	0905 20:30	0907 15:17	SS
TCLP Extraction				1	1311	0823 17:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	71.0	%	30-150					
Decachlorobiphenyl	88.0	%	30-150					
TCLP Volatile Organics				1	8260B		0907 12:34	SE
TCLP Extraction				1	1311	0904 16:38		
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
Tetrachloroethene	ND	ug/l	5.0					
Chlorobenzene	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	5.0					
Benzene	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	10.					
1,1-Dichloroethene	ND	ug/l	5.0					
Trichloroethene	5.7	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	25.					
2-Butanone	ND	ug/l	50.					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	110	%	70-130					
Toluene-d8	96.0	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-04
SP-I4-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Volatile Organics cont'd				1	8260B		0907 12:34	SE
TCLP Extraction				1	1311	0904 16:38		
4-Bromofluorobenzene	101	%	70-130					
Dibromofluoromethane	98.0	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-05
SP-I5-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:25
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial,1-amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:36	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:36	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:36	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:36	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:36	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:40	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:36	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:36	MG
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0908 22:24	HL
TCLP Extraction				1	1311	0823 17:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	53.0	%	21-120					
Phenol-d6	60.0	%	10-120					
Nitrobenzene-d5	61.0	%	23-120					
2-Fluorobiphenyl	62.0	%	43-120					
2,4,6-Tribromophenol	73.0	%	10-120					
4-Terphenyl-d14	79.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 16:42	SS
TCLP Extraction				1	1311	0823 17:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-05
SP-I5-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0905 18:45	0907 16:42	SS
TCLP Extraction				1	1311	0823 17:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	61.0	%	30-150					
Decachlorobiphenyl	69.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0910 22:01	JB
TCLP Extraction				1	1311	0823 17:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	93.0	%						
TCLP PCBs by GC				1	8082	0905 20:30	0907 13:37	SS
TCLP Extraction				1	1311	0823 17:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	61.0	%	30-150					
Decachlorobiphenyl	55.0	%	30-150					
TCLP Volatile Organics				1	8260B		0907 13:12	SE
TCLP Extraction				1	1311	0904 16:38		
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
Tetrachloroethene	ND	ug/l	5.0					
Chlorobenzene	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	5.0					
Benzene	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	10.					
1,1-Dichloroethene	ND	ug/l	5.0					
Trichloroethene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	25.					
2-Butanone	ND	ug/l	50.					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	110	%	70-130					
Toluene-d8	98.0	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-05
SP-I5-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Volatile Organics cont'd				1	8260B		0907 13:12	SE
TCLP Extraction				1	1311	0904 16:38		
4-Bromofluorobenzene	102	%	70-130					
Dibromofluoromethane	102	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-06
SP-I6-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:30
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

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

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:38	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:38	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:38	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:38	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:38	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:42	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:38	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:38	MG
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0908 22:55	HL
TCLP Extraction				1	1311	0823 17:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	55.0	%	21-120					
Phenol-d6	61.0	%	10-120					
Nitrobenzene-d5	62.0	%	23-120					
2-Fluorobiphenyl	63.0	%	43-120					
2,4,6-Tribromophenol	70.0	%	10-120					
4-Terphenyl-d14	78.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 17:11	SS
TCLP Extraction				1	1311	0823 17:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-06
SP-I6-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0905 18:45	0907 17:11	SS
TCLP Extraction				1	1311	0823 17:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	53.0	%	30-150					
Decachlorobiphenyl	68.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0910 22:50	JB
TCLP Extraction				1	1311	0823 17:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	78.0	%						
TCLP PCBs by GC				1	8082	0905 20:30	0907 14:05	SS
TCLP Extraction				1	1311	0823 17:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	56.0	%	30-150					
Decachlorobiphenyl	61.0	%	30-150					
TCLP Volatile Organics				1	8260B		0907 13:51	SE
TCLP Extraction				1	1311	0904 16:38		
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
Tetrachloroethene	ND	ug/l	5.0					
Chlorobenzene	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	5.0					
Benzene	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	10.					
1,1-Dichloroethene	ND	ug/l	5.0					
Trichloroethene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	25.					
2-Butanone	ND	ug/l	50.					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	111	%	70-130					
Toluene-d8	96.0	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-06
SP-I6-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Volatile Organics cont'd				1	8260B		0907 13:51	SE
TCLP Extraction				1	1311	0904 16:38		
4-Bromofluorobenzene	100	%	70-130					
Dibromofluoromethane	101	%	70-130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-07
SP-J1-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:35
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:40	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:40	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:40	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:40	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:40	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:43	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:40	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:40	MG
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0908 23:26	HL
TCLP Extraction				1	1311	0823 17:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	68.0	%	21-120					
Phenol-d6	77.0	%	10-120					
Nitrobenzene-d5	79.0	%	23-120					
2-Fluorobiphenyl	79.0	%	43-120					
2,4,6-Tribromophenol	88.0	%	10-120					
4-Terphenyl-d14	101	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 18:08	SS
TCLP Extraction				1	1311	0823 17:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-07
SP-J1-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0905 18:45	0907 18:08	SS
TCLP Extraction				1	1311	0823 17:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	59.0	%	30-150					
Decachlorobiphenyl	67.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0911 00:29	JB
TCLP Extraction				1	1311	0823 17:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	78.0	%						
TCLP PCBs by GC				1	8082	0905 20:30	0907 14:34	SS
TCLP Extraction				1	1311	0823 17:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	57.0	%	30-150					
Decachlorobiphenyl	59.0	%	30-150					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-08
SP-J2-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:40
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:43	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:43	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:43	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:43	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:43	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:45	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:43	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:43	MG
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0908 23:57	HL
TCLP Extraction				1	1311	0823 17:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	55.0	%	21-120					
Phenol-d6	61.0	%	10-120					
Nitrobenzene-d5	64.0	%	23-120					
2-Fluorobiphenyl	61.0	%	43-120					
2,4,6-Tribromophenol	73.0	%	10-120					
4-Terphenyl-d14	79.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 18:37	SS
TCLP Extraction				1	1311	0823 17:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-08
SP-J2-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0905 18:45	0907 18:37	SS
TCLP Extraction				1	1311	0823 17:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	57.0	%	30-150					
Decachlorobiphenyl	65.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0911 01:18	JB
TCLP Extraction				1	1311	0823 17:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	73.0	%						
TCLP PCBs by GC				1	8082	0905 20:30	0907 15:02	SS
TCLP Extraction				1	1311	0823 17:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	60.0	%	30-150					
Decachlorobiphenyl	62.0	%	30-150					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-09
SP-J3-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:45
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:45	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:45	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:45	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:45	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:45	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:47	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:45	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:45	MG
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0909 00:28	HL
TCLP Extraction				1	1311	0823 17:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	54.0	%	21-120					
Phenol-d6	66.0	%	10-120					
Nitrobenzene-d5	58.0	%	23-120					
2-Fluorobiphenyl	57.0	%	43-120					
2,4,6-Tribromophenol	68.0	%	10-120					
4-Terphenyl-d14	76.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 19:06	SS
TCLP Extraction				1	1311	0823 17:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-09
SP-J3-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0905 18:45	0907 19:06	SS
TCLP Extraction				1	1311	0823 17:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	64.0	%	30-150					
Decachlorobiphenyl	68.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0911 02:07	JB
TCLP Extraction				1	1311	0823 17:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	84.0	%						
TCLP PCBs by GC				1	8082	0905 20:30	0907 15:31	SS
TCLP Extraction				1	1311	0823 17:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	68.0	%	30-150					
Decachlorobiphenyl	62.0	%	30-150					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-10
SP-J4-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:50
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0831 16:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 15:14	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 15:14	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 15:14	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 15:14	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 15:14	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:56	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 15:14	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 15:14	MG
TCLP Semi-Volatile Organics				1	8270C	0904 17:30	0907 07:50	RL
TCLP Extraction				1	1311	0831 16:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	46.0	%	21-120					
Phenol-d6	57.0	%	10-120					
Nitrobenzene-d5	49.0	%	23-120					
2-Fluorobiphenyl	50.0	%	43-120					
2,4,6-Tribromophenol	65.0	%	10-120					
4-Terphenyl-d14	76.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0904 19:30	0905 21:34	SS
TCLP Extraction				1	1311	0831 16:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-10
SP-J4-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0904 19:30	0905 21:34	SS
TCLP Extraction				1	1311	0831 16:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	61.0	%	30-150					
Decachlorobiphenyl	58.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0904 20:00	0911 06:14	JB
TCLP Extraction				1	1311	0831 16:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	102	%						
TCLP PCBs by GC				1	8082	0904 17:30	0906 05:07	SS
TCLP Extraction				1	1311	0831 16:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	72.0	%	30-150					
Decachlorobiphenyl	82.0	%	30-150					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-11
SP-J5-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 11:55
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0831 16:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 15:22	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 15:22	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 15:22	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 15:22	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 15:22	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:58	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 15:22	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 15:22	MG
TCLP Semi-Volatile Organics				1	8270C	0904 17:30	0907 08:21	RL
TCLP Extraction				1	1311	0831 16:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	50.0	%	21-120					
Phenol-d6	57.0	%	10-120					
Nitrobenzene-d5	51.0	%	23-120					
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	66.0	%	10-120					
4-Terphenyl-d14	76.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0904 19:30	0910 11:02	SS
TCLP Extraction				1	1311	0831 16:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-11
SP-J5-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0904 19:30	0910 11:02	SS
TCLP Extraction				1	1311	0831 16:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	62.0	%	30-150					
Decachlorobiphenyl	62.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0904 20:00	0911 07:03	JB
TCLP Extraction				1	1311	0831 16:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	104	%						
TCLP PCBs by GC				1	8082	0904 17:30	0906 05:36	SS
TCLP Extraction				1	1311	0831 16:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	74.0	%	30-150					
Decachlorobiphenyl	78.0	%	30-150					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712631-12
SP-J6-20070821-01
Sample Matrix: SOIL

Date Collected: 21-AUG-2007 12:00
Date Received : 22-AUG-2007
Date Reported : 11-SEP-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Metals								
TCLP Extraction				1	1311	0831 16:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 15:24	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 15:24	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 15:24	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 15:24	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 15:24	MG
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 11:03	DM
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 15:24	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 15:24	MG
TCLP Semi-Volatile Organics				1	8270C	0904 17:30	0907 08:51	RL
TCLP Extraction				1	1311	0831 16:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	54.0	%	21-120					
Phenol-d6	65.0	%	10-120					
Nitrobenzene-d5	57.0	%	23-120					
2-Fluorobiphenyl	60.0	%	43-120					
2,4,6-Tribromophenol	73.0	%	10-120					
4-Terphenyl-d14	78.0	%	33-120					
TCLP Pesticides by GC				1	8082/8081	0904 19:30	0905 22:31	SS
TCLP Extraction				1	1311	0831 16:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712631-12
SP-J6-20070821-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
TCLP Pesticides by GC cont'd				1	8082/8081	0904 19:30	0905 22:31	SS
TCLP Extraction				1	1311	0831 16:00		
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	72.0	%	30-150					
Decachlorobiphenyl	62.0	%	30-150					
TCLP Herbicides by GC				1	8151A(M)	0904 20:00	0911 07:53	JB
TCLP Extraction				1	1311	0831 16:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	83.0	%						
TCLP PCBs by GC				1	8082	0904 17:30	0906 06:04	SS
TCLP Extraction				1	1311	0831 16:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	75.0	%	30-150					
Decachlorobiphenyl	86.0	%	30-150					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0712631

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
TCLP Metals for sample(s) 01-09 (L0712631-01, WG292771-1)					
Arsenic, TCLP	ND	ND	mg/l	NC	20
Barium, TCLP	ND	ND	mg/l	NC	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Chromium, TCLP	ND	ND	mg/l	NC	20
Lead, TCLP	ND	ND	mg/l	NC	20
Selenium, TCLP	ND	ND	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20
TCLP Metals for sample(s) 10-12 (L0712631-10, WG292772-1)					
Arsenic, TCLP	ND	ND	mg/l	NC	20
Barium, TCLP	ND	ND	mg/l	NC	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Chromium, TCLP	ND	ND	mg/l	NC	20
Lead, TCLP	ND	ND	mg/l	NC	20
Selenium, TCLP	ND	ND	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20
TCLP Metals for sample(s) 01-09 (L0712631-03, WG292791-3)					
Mercury, TCLP	ND	ND	mg/l	NC	
TCLP Metals for sample(s) 10-12 (L0712631-11, WG292792-3)					
Mercury, TCLP	ND	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0712631

Parameter	% Recovery	QC Criteria
TCLP Metals LCS for sample(s) 01-09 (WG292771-4)		
Arsenic, TCLP	110	75-125
Barium, TCLP	95	75-125
Cadmium, TCLP	110	75-125
Chromium, TCLP	100	75-125
Lead, TCLP	110	75-125
Selenium, TCLP	110	75-125
Silver, TCLP	100	75-125
TCLP Metals LCS for sample(s) 10-12 (WG292772-4)		
Arsenic, TCLP	120	75-125
Barium, TCLP	95	75-125
Cadmium, TCLP	110	75-125
Chromium, TCLP	110	75-125
Lead, TCLP	110	75-125
Selenium, TCLP	115	75-125
Silver, TCLP	110	75-125
TCLP Metals LCS for sample(s) 01-09 (WG292791-1)		
Mercury, TCLP	101	
TCLP Metals LCS for sample(s) 10-12 (WG292792-1)		
Mercury, TCLP	100	
TCLP Semi-Volatile Organics LCS for sample(s) 10-12 (WG292864-2)		
Hexachlorobenzene	78	40-140
2,4-Dinitrotoluene	63	24-96
Hexachlorobutadiene	40	10-100
Hexachloroethane	37	13-82
Nitrobenzene	43	40-140
2,4,6-Trichlorophenol	50	30-130
Pentachlorophenol	80	9-103
2-Methylphenol	42	30-130
3-Methylphenol/4-Methylphenol	43	30-130
2,4,5-Trichlorophenol	59	30-130
Pyridine	11	
Surrogate(s)		
2-Fluorophenol	40	21-120
Phenol-d6	52	10-120
Nitrobenzene-d5	43	23-120
2-Fluorobiphenyl	46	43-120
2,4,6-Tribromophenol	76	10-120
4-Terphenyl-d14	75	33-120
TCLP Semi-Volatile Organics LCS for sample(s) 01-09 (WG293023-2)		
Hexachlorobenzene	80	40-140
2,4-Dinitrotoluene	62	24-96
Hexachlorobutadiene	53	10-100

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0712631

Continued

Parameter	% Recovery	QC Criteria
TCLP Semi-Volatile Organics LCS for sample(s) 01-09 (WG293023-2)		
Hexachloroethane	45	13-82
Nitrobenzene	57	40-140
2,4,6-Trichlorophenol	62	30-130
Pentachlorophenol	63	9-103
2-Methylphenol	50	30-130
3-Methylphenol/4-Methylphenol	50	30-130
2,4,5-Trichlorophenol	65	30-130
Pyridine	32	
Surrogate(s)		
2-Fluorophenol	43	21-120
Phenol-d6	52	10-120
Nitrobenzene-d5	49	23-120
2-Fluorobiphenyl	57	43-120
2,4,6-Tribromophenol	66	10-120
4-Terphenyl-d14	73	33-120
TCLP Pesticides by GC LCS for sample(s) 10-12 (WG292865-2)		
Lindane	66	30-150
Heptachlor	69	30-150
Heptachlor epoxide	68	30-150
Endrin	102	30-150
Methoxychlor	81	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	52	30-150
Decachlorobiphenyl	54	30-150
TCLP Pesticides by GC LCS for sample(s) 01-09 (WG293042-2)		
Lindane	74	30-150
Heptachlor	74	30-150
Heptachlor epoxide	81	30-150
Endrin	124	30-150
Methoxychlor	102	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	47	30-150
Decachlorobiphenyl	67	30-150
TCLP Herbicides by GC LCS for sample(s) 10-12 (WG292866-2)		
2,4-D	118	
2,4,5-TP (Silvex)	49	
Surrogate(s)		
DCAA	67	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0712631

Continued

Parameter	% Recovery	QC Criteria
TCLP Herbicides by GC LCS for sample(s) 01-09 (WG293099-2)		
2,4-D	114	
2,4,5-TP (Silvex)	48	
Surrogate(s)		
DCAA	56	
TCLP PCBs by GC LCS for sample(s) 10-12 (WG292863-2)		
Aroclor 1016	69	40-140
Aroclor 1260	102	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	63	30-150
Decachlorobiphenyl	102	30-150
TCLP PCBs by GC LCS for sample(s) 01-09 (WG293041-2)		
Aroclor 1016	59	40-140
Aroclor 1260	74	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	65	30-150
Decachlorobiphenyl	85	30-150
TCLP Volatile Organics LCS for sample(s) 01-06 (WG290025-7)		
Chloroform	103	70-130
Carbon tetrachloride	110	70-130
Tetrachloroethene	107	70-130
Chlorobenzene	104	75-130
1,2-Dichloroethane	108	70-130
Benzene	106	76-127
Vinyl chloride	98	70-130
1,1-Dichloroethene	108	61-145
Trichloroethene	107	71-120
1,4-Dichlorobenzene	101	70-130
2-Butanone	106	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130
Dibromofluoromethane	102	70-130
TCLP Metals SPIKE for sample(s) 01-09 (L0712631-01, WG292771-2)		
Arsenic, TCLP	110	75-125
Barium, TCLP	94	75-125
Cadmium, TCLP	110	75-125
Chromium, TCLP	100	75-125
Lead, TCLP	110	75-125
Selenium, TCLP	115	75-125

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0712631

Continued

Parameter	% Recovery	QC Criteria
TCLP Metals SPIKE for sample(s) 01-09 (L0712631-01, WG292771-2)		
Silver, TCLP	100	75-125
TCLP Metals SPIKE for sample(s) 10-12 (L0712631-10, WG292772-2)		
Arsenic, TCLP	110	75-125
Barium, TCLP	95	75-125
Cadmium, TCLP	110	75-125
Chromium, TCLP	100	75-125
Lead, TCLP	100	75-125
Selenium, TCLP	105	75-125
Silver, TCLP	100	75-125
TCLP Metals SPIKE for sample(s) 01-09 (L0712631-03, WG292791-2)		
Mercury, TCLP	116	
TCLP Metals SPIKE for sample(s) 10-12 (L0712631-11, WG292792-2)		
Mercury, TCLP	121	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0712631

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
TCLP Semi-Volatile Organics for sample(s) 10-12 (L0712631-10, WG292864-4)					
Hexachlorobenzene	82	84	2	30	40-140
2,4-Dinitrotoluene	66	66	0	30	24-96
Hexachlorobutadiene	46	48	4	30	10-100
Hexachloroethane	40	44	10	30	13-82
Nitrobenzene	50	52	4	30	40-140
2,4,6-Trichlorophenol	56	54	4	30	30-130
Pentachlorophenol	80	74	8	30	9-103
2-Methylphenol	50	48	4	30	30-130
3-Methylphenol/4-Methylphenol	49	48	2	30	30-130
2,4,5-Trichlorophenol	64	62	3	30	30-130
Pyridine	11	26	81	30	
Surrogate(s)					
2-Fluorophenol	47	43	9		21-120
Phenol-d6	59	57	3		10-120
Nitrobenzene-d5	49	48	2		23-120
2-Fluorobiphenyl	51	52	2		43-120
2,4,6-Tribromophenol	77	73	5		10-120
4-Terphenyl-d14	79	75	5		33-120
TCLP Semi-Volatile Organics for sample(s) 01-09 (L0712631-01, WG293023-4)					
Hexachlorobenzene	80	80	0	30	40-140
2,4-Dinitrotoluene	66	66	0	30	24-96
Hexachlorobutadiene	52	52	0	30	10-100
Hexachloroethane	44	44	0	30	13-82
Nitrobenzene	56	56	0	30	40-140
2,4,6-Trichlorophenol	60	60	0	30	30-130
Pentachlorophenol	68	66	3	30	9-103
2-Methylphenol	50	48	4	30	30-130
3-Methylphenol/4-Methylphenol	49	48	2	30	30-130
2,4,5-Trichlorophenol	66	66	0	30	30-130
Pyridine	45	35	25	30	
Surrogate(s)					
2-Fluorophenol	45	43	5		21-120
Phenol-d6	54	51	6		10-120
Nitrobenzene-d5	51	48	6		23-120
2-Fluorobiphenyl	58	55	5		43-120
2,4,6-Tribromophenol	73	69	6		10-120
4-Terphenyl-d14	75	76	1		33-120
TCLP Pesticides by GC for sample(s) 10-12 (L0712631-10, WG292865-4)					
Lindane	82	71	14	30	30-150
Heptachlor	85	76	11	30	30-150
Heptachlor epoxide	81	74	9	30	30-150
Endrin	121	110	10	30	30-150
Methoxychlor	98	89	10	30	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0712631

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
TCLP Pesticides by GC for sample(s) 10-12 (L0712631-10, WG292865-4)					
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	67	57	16		30-150
Decachlorobiphenyl	60	55	9		30-150
TCLP Pesticides by GC for sample(s) 01-09 (L0712631-02, WG293042-4)					
Lindane	50	66	28	30	30-150
Heptachlor	46	68	39	30	30-150
Heptachlor epoxide	67	77	14	30	30-150
Endrin	109	121	10	30	30-150
Methoxychlor	95	101	6	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	31	47	41		30-150
Decachlorobiphenyl	66	69	4		30-150
TCLP Herbicides by GC for sample(s) 10-12 (L0712631-10, WG292866-4)					
2,4-D	110	120	9		
2,4,5-TP (Silvex)	42	66	46		
Surrogate(s)					
DCAA	55	83	41		
TCLP Herbicides by GC for sample(s) 01-09 (L0712631-01, WG293099-4)					
2,4-D	110	110	0		
2,4,5-TP (Silvex)	45	47	5		
Surrogate(s)					
DCAA	55	58	5		
TCLP PCBs by GC for sample(s) 10-12 (L0712631-10, WG292863-4)					
Aroclor 1016	74	82	10	30	40-140
Aroclor 1260	102	109	7	30	40-140
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	79	67	16		30-150
Decachlorobiphenyl	80	78	3		30-150
TCLP PCBs by GC for sample(s) 01-09 (L0712631-01, WG293041-4)					
Aroclor 1016	74	72	3	30	40-140
Aroclor 1260	81	86	6	30	40-140
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	70	67	4		30-150
Decachlorobiphenyl	88	90	2		30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0712631

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
TCLP Volatile Organics for sample(s) 01-06 (L0710794-06, WG290025-2)					
Chloroform	102	97	5	20	70-130
Carbon tetrachloride	101	94	7	20	70-130
Tetrachloroethene	93	89	4	20	70-130
Chlorobenzene	99	96	3	20	75-130
1,2-Dichloroethane	109	99	10	20	70-130
Benzene	92	87	6	20	76-127
Vinyl chloride	86	82	5	20	70-130
1,1-Dichloroethene	102	91	11	20	61-145
Trichloroethene	94	86	9	20	71-120
1,4-Dichlorobenzene	97	101	4	20	70-130
2-Butanone	124	112	10	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	108	106	2		70-130
Toluene-d8	100	94	6		70-130
4-Bromofluorobenzene	104	104	0		70-130
Dibromofluoromethane	109	102	7		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0712631

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-09 (WG292771-3)								
TCLP Metals								
TCLP Extraction				1	1311	0823 17:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:09	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:09	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:09	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:09	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:09	MG
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:09	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:09	MG
Blank Analysis for sample(s) 10-12 (WG292772-3)								
TCLP Metals								
TCLP Extraction				1	1311	0831 16:00		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	0904 11:00	0904 14:48	MG
Barium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:48	MG
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:48	MG
Chromium, TCLP	ND	mg/l	0.20	1	6010B	0904 11:00	0904 14:48	MG
Lead, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:48	MG
Selenium, TCLP	ND	mg/l	0.50	1	6010B	0904 11:00	0904 14:48	MG
Silver, TCLP	ND	mg/l	0.10	1	6010B	0904 11:00	0904 14:48	MG
Blank Analysis for sample(s) 01-09 (WG292791-4)								
TCLP Metals								
TCLP Extraction				1	1311	0823 17:30		
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:22	DM
Blank Analysis for sample(s) 10-12 (WG292792-4)								
TCLP Metals								
TCLP Extraction				1	1311	0831 16:00		
Mercury, TCLP	ND	mg/l	0.0010	1	7470A	0904 15:00	0905 10:49	DM
Blank Analysis for sample(s) 10-12 (WG292864-1)								
TCLP Semi-Volatile Organics				1	8270C	0904 17:30	0907 09:22	RL
TCLP Extraction				1	1311	0831 16:00		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0712631

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 10-12 (WG292864-1)								
TCLP Semi-Volatile Organics cont'd				1	8270C	0904 17:30	0907 09:22	RL
TCLP Extraction				1	1311	0831 16:00		
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	51.0	%	21-120					
Phenol-d6	60.0	%	10-120					
Nitrobenzene-d5	52.0	%	23-120					
2-Fluorobiphenyl	53.0	%	43-120					
2,4,6-Tribromophenol	73.0	%	10-120					
4-Terphenyl-d14	77.0	%	33-120					
Blank Analysis for sample(s) 01-09 (WG293023-1)								
TCLP Semi-Volatile Organics				1	8270C	0905 17:00	0908 18:17	HL
TCLP Extraction				1	1311	0904 16:30		
Hexachlorobenzene	ND	ug/l	25.					
2,4-Dinitrotoluene	ND	ug/l	30.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
2,4,6-Trichlorophenol	ND	ug/l	25.					
Pentachlorophenol	ND	ug/l	50.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	46.0	%	21-120					
Phenol-d6	57.0	%	10-120					
Nitrobenzene-d5	51.0	%	23-120					
2-Fluorobiphenyl	49.0	%	43-120					
2,4,6-Tribromophenol	66.0	%	10-120					
4-Terphenyl-d14	72.0	%	33-120					
Blank Analysis for sample(s) 10-12 (WG292865-1)								
TCLP Pesticides by GC				1	8082/8081	0904 19:30	0905 19:39	SS
TCLP Extraction				1	1311	0831 16:00		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0712631

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 10-12 (WG292865-1)								
TCLP Pesticides by GC cont'd				1	8082/8081	0904 19:30	0905 19:39	SS
TCLP Extraction				1	1311	0831 16:00		
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	60.0	%	30-150					
Decachlorobiphenyl	65.0	%	30-150					
Blank Analysis for sample(s) 01-09 (WG293042-1)								
TCLP Pesticides by GC				1	8082/8081	0905 18:45	0907 12:52	SS
TCLP Extraction				1	1311	0904 16:30		
Lindane	ND	ug/l	0.100					
Heptachlor	ND	ug/l	0.100					
Heptachlor epoxide	ND	ug/l	0.100					
Endrin	ND	ug/l	0.200					
Methoxychlor	ND	ug/l	1.00					
Toxaphene	ND	ug/l	1.00					
Chlordane	ND	ug/l	1.00					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	55.0	%	30-150					
Decachlorobiphenyl	70.0	%	30-150					
Blank Analysis for sample(s) 10-12 (WG292866-1)								
TCLP Herbicides by GC				1	8151A(M)	0904 20:00	0911 02:57	JB
TCLP Extraction				1	1311	0831 16:00		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	62.0	%						
Blank Analysis for sample(s) 01-09 (WG293099-1)								
TCLP Herbicides by GC				1	8151A(M)	0906 09:30	0910 15:26	JB
TCLP Extraction				1	1311	0904 16:30		
2,4-D	ND	mg/l	0.03					
2,4,5-TP (Silvex)	ND	mg/l	0.003					
Surrogate(s)	Recovery		QC Criteria					
DCAA	75.0	%						
Blank Analysis for sample(s) 10-12 (WG292863-1)								
TCLP PCBs by GC				1	8082	0904 17:30	0906 03:12	SS
TCLP Extraction				1	1311	0831 16:00		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0712631

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 10-12 (WG292863-1)								
TCLP PCBs by GC cont'd				1	8082	0904 17:30	0906 03:12	SS
TCLP Extraction				1	1311	0831 16:00		
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	71.0	%	30-150					
Decachlorobiphenyl	110	%	30-150					
Blank Analysis for sample(s) 01-09 (WG293041-1)								
TCLP PCBs by GC				1	8082	0905 20:30	0907 11:28	SS
TCLP Extraction				1	1311	0904 16:30		
Aroclor 1016	ND	ug/l	2.50					
Aroclor 1221	ND	ug/l	2.50					
Aroclor 1232	ND	ug/l	2.50					
Aroclor 1242	ND	ug/l	2.50					
Aroclor 1248	ND	ug/l	2.50					
Aroclor 1254	ND	ug/l	2.50					
Aroclor 1260	ND	ug/l	2.50					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	53.0	%	30-150					
Decachlorobiphenyl	90.0	%	30-150					
Blank Analysis for sample(s) 01-06 (WG290025-8)								
TCLP Volatile Organics				1	8260B		0907 10:03	SE
TCLP Extraction				1	1311	0904 16:38		
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
Tetrachloroethene	ND	ug/l	5.0					
Chlorobenzene	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	5.0					
Benzene	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	10.					
1,1-Dichloroethene	ND	ug/l	5.0					
Trichloroethene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	25.					
2-Butanone	ND	ug/l	50.					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	103	%	70-130					
Toluene-d8	97.0	%	70-130					
4-Bromofluorobenzene	101	%	70-130					
Dibromofluoromethane	101	%	70-130					

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

Date Rec'd in Lab: 8/22/07

ALPHA Job #: L0712631

ALPHA
WOODS HOLE, MA

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM - Boston
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation
Project Location: Raytheon-Wayland
Project #: 0051545
Project Manager: Jason Flaherty
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5day 9/10/07 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
MCP	S2-GW1

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:

Relog of L0712125-01 thru -12

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP 8260	TCLP 8270	TCLP-PCB	TCLP-Pest	TCLP-Herb	TCLP-8 Metals	Sample Specific Comments
12631-01	SP-I1-20070821-01	8-21-07	1105	S		x	x	x	x	x	x	
-02	SP-I2-20070821-01		1110			x	x	x	x	x	x	
-03	SP-I3-20070821-01		1115			x	x	x	x	x	x	
-04	SP-I4-20070821-01		1120			x	x	x	x	x	x	
-05	SP-I5-20070821-01		1125			x	x	x	x	x	x	
-06	SP-I6-20070821-01		1130			x	x	x	x	x	x	
-07	SP-J1-20070821-01		1135				x	x	x	x	x	
-08	SP-J2-20070821-01		1140				x	x	x	x	x	
-09	SP-J3-20070821-01		1145				x	x	x	x	x	
-10	SP-J4-20070821-01		1150				x	x	x	x	x	

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

Container Type
Preservative

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
		TFung	8/31/07 1400

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

FORM NO: 01-01 (rev. 10-OCT-05)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 8/22/07

ALPHA Job #: L0712631

ALPHA
WOODS HOLE LABS

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: ERM- Boston

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation

Project Location: Raytheon-Wayland

Project #: 0051545

Project Manager: Jason Flattery

ALPHA Quote #:

Turn-Around Time

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

Date Due: Friday 9/10/07 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
MCP	S2-GW1

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:

Relog of L0712125-01 thru-12

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP 8260	TCLP 8270	TCLP-PCB	TCLP-Pest	TCLP-Herb	TCLP-RP Metals	Sample Specific Comments
12631-11	SP-J5-20070821-01	8-21-07	1155	S		X	X	X	X	X		
12	SP-J6-20070821-01	8-21-07	1200	↓		X	X	X	X	X		

SAMPLE HANDLING

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

Container Type												
Preservative												

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
		T. Flattery	8/31/07 1400

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

FORM NO: 01-01 (rev. 10-OCT-05)

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA
WORLD WIDE LABS

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: 8/22

ALPHA Job #: L0712125

Client Information

Client: ERM-Boston
Address: 399 Boylston St. 6th Flr
Boston, MA 02116
Phone: 617 646 7800
Fax: 617 267 6447
Email: jason.flattery@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation
Project Location: Raytheon-Wayland
Project #: 0051545
Project Manager: Jason Flattery
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/29 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
MCP	S2 + GW-1

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:

ANALYSIS: TCLP VOA; RCRA's TCLP SVOCs Pest+Herb; pH, reactivity, flash; TCLP As, Ba, Cd, Pb, Se, Ag; VOCs (High) 8260; VOCs (Low) 8260; Total Solids

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	TCLP VOA	RCRA's TCLP SVOCs Pest+Herb	pH, reactivity, flash	TCLP As, Ba, Cd, Pb, Se, Ag	VOCs (High) 8260	VOCs (Low) 8260	Total Solids	Sample Specific Comments
12125-01	SP-I1-20070821-01	8/21/07	1105	S	HEA	1	1	1	1	1	1	1	
2	SP-I2-20070821-01		1110										
3	SP-I3-20070821-01		1115										
4	SP-I4-20070821-01		1120										
5	SP-I5-20070821-01		1125										
6	SP-I6-20070821-01		1130										
7	SP-J1-20070821-01		1135										
8	SP-J2-20070821-01		1140										
9	SP-J3-20070821-01		1145										
10	SP-J4-20070821-01		1150										
	Container Type					A	A	A	A	V	V	P	
	Preservative					A	A	A	A	F	HCl	A	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	8/22/07 10:00		8/22 1020
	8/22 11:20		8/22/07 1120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time c will not start until any ambiguitie resolved. All samples submitte subject to Alpha's Payment Ter See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 8/22

ALPHA Job #: L0712125

ALPHA ANALYTICAL LABORATORIES

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM Boston

Address: 399 Boylston St. 6th Flr

Boston, MA 02116

Phone: 617 646 7800

Fax: 617 267 6447

Email: jason.flatley@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation

Project Location: Raytheon Wayland

Project #: 0051545

Project Manager: Jason Flatley

ALPHA Quote #:

Turn-Around Time

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

Date Due: 8/29 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: MCP

Criteria: S2 + GW-1

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:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP VOA	PCBs, TCLP Semivols, Pest, Herb	pH, Reactivity, Flash	TCLP As, Ba, Cd, Pb, Se, Ag	VOCs (Chlor.) 8260	VOCs (Low) 8260	Total Solids					Sample Specific Comments
L2125. 11	SP-J5-20070821-01	8/21/07	1155	S	HEA	1	1	1	1	1	1	1					
12	SP-J6-20070821-01	8/21/07	1200	S	HEA	1	1	1	1	1	1	1					
13	DUP-001-20070821-01	8/21/07	2400	S	HEA					1	1	1					
Container Type						A	A	A	A	V	V	P					
Preservative						A	A	A	A	F	HNO	A					

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?

Relinquished By:	Date/Time	Received By:	Date/Time
	8/22/07 10:0		8/22 10:0
	8/22 1120		8/22/07 1120

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)

ANALYTICAL REPORT

Lab Number:	L0712529
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	NA SOIL EXCAVATION
Project Number:	0051545
Report Date:	09/04/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

Alpha Sample ID	Client ID	Sample Location
L0712529-01	SP-H1-20070820-01	RAYTHEON WAYLAND
L0712529-02	SP-H2-20070820-01	RAYTHEON WAYLAND
L0712529-03	SP-H3-20070820-01	RAYTHEON WAYLAND
L0712529-04	SP-H4-20070820-01	RAYTHEON WAYLAND
L0712529-05	SP-I1-20070821-01	RAYTHEON WAYLAND
L0712529-06	SP-I2-20070821-01	RAYTHEON WAYLAND
L0712529-07	SP-I3-20070821-01	RAYTHEON WAYLAND
L0712529-08	SP-I4-20070821-01	RAYTHEON WAYLAND
L0712529-09	SP-I5-20070821-01	RAYTHEON WAYLAND
L0712529-10	SP-I6-20070821-01	RAYTHEON WAYLAND
L0712529-11	SP-J1-20070821-01	RAYTHEON WAYLAND
L0712529-12	SP-J2-20070821-01	RAYTHEON WAYLAND
L0712529-13	SP-J3-20070821-01	RAYTHEON WAYLAND
L0712529-14	SP-J4-20070821-01	RAYTHEON WAYLAND
L0712529-15	SP-J5-20070821-01	RAYTHEON WAYLAND
L0712529-16	SP-J6-20070821-01	RAYTHEON WAYLAND

Project Name:	NA SOIL EXCAVATION	**Lab Number:**	L0712529
Project Number:	0051545	**Report Date:**	09/04/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	NA SOIL EXCAVATION	**Lab Number:**	L0712529
Project Number:	0051545	**Report Date:**	09/04/07

Case Narrative

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.

Report Submission

This report replaces the previously issued preliminary report to include data for all requested analytes.

MCP Related Narratives:

PCB

L0712529-02 was re-extracted to confirm the original results. Re-extraction was performed within holding time and the re-extracted data is reported.

L0712529-11 was re-extracted due to surrogate recoveries outside acceptance criteria on the original analysis. Re-extraction was performed within holding time and has acceptable surrogate recoveries; therefore, the re-extracted data is reported.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 09/04/07

ORGANICS

PCBS

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-01	Date Collected:	08/20/07 14:00
Client ID:	SP-H1-20070820-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 01:00	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	76%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	43.8	1
Aroclor 1221	ND		ug/kg	43.8	1
Aroclor 1232	ND		ug/kg	43.8	1
Aroclor 1242	ND		ug/kg	43.8	1
Aroclor 1248	ND		ug/kg	43.8	1
Aroclor 1254	ND		ug/kg	43.8	1
Aroclor 1260	ND		ug/kg	43.8	1
Aroclor 1262	ND		ug/kg	43.8	1
Aroclor 1268	ND		ug/kg	43.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-02 RE	Date Collected:	08/20/07 14:05
Client ID:	SP-H2-20070820-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	09/04/07 13:45
Analytical Date:	09/04/07 15:11	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	09/04/07
Percent Solids:	76%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	43.8	1
Aroclor 1221	ND		ug/kg	43.8	1
Aroclor 1232	ND		ug/kg	43.8	1
Aroclor 1242	ND		ug/kg	43.8	1
Aroclor 1248	ND		ug/kg	43.8	1
Aroclor 1254	ND		ug/kg	43.8	1
Aroclor 1260	ND		ug/kg	43.8	1
Aroclor 1262	ND		ug/kg	43.8	1
Aroclor 1268	ND		ug/kg	43.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-03	Date Collected:	08/20/07 14:10
Client ID:	SP-H3-20070820-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 01:57	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	43.3	1
Aroclor 1221	ND		ug/kg	43.3	1
Aroclor 1232	ND		ug/kg	43.3	1
Aroclor 1242	ND		ug/kg	43.3	1
Aroclor 1248	ND		ug/kg	43.3	1
Aroclor 1254	ND		ug/kg	43.3	1
Aroclor 1260	ND		ug/kg	43.3	1
Aroclor 1262	ND		ug/kg	43.3	1
Aroclor 1268	ND		ug/kg	43.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	35		30-150	B
Decachlorobiphenyl	41		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-04	Date Collected:	08/20/07 14:15
Client ID:	SP-H4-20070820-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 02:26	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	79%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	42.2	1
Aroclor 1221	ND		ug/kg	42.2	1
Aroclor 1232	ND		ug/kg	42.2	1
Aroclor 1242	ND		ug/kg	42.2	1
Aroclor 1248	ND		ug/kg	42.2	1
Aroclor 1254	ND		ug/kg	42.2	1
Aroclor 1260	ND		ug/kg	42.2	1
Aroclor 1262	ND		ug/kg	42.2	1
Aroclor 1268	ND		ug/kg	42.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	109		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-05	Date Collected:	08/21/07 11:05
Client ID:	SP-I1-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 02:54	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	76%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	43.8	1
Aroclor 1221	ND		ug/kg	43.8	1
Aroclor 1232	ND		ug/kg	43.8	1
Aroclor 1242	ND		ug/kg	43.8	1
Aroclor 1248	ND		ug/kg	43.8	1
Aroclor 1254	ND		ug/kg	43.8	1
Aroclor 1260	ND		ug/kg	43.8	1
Aroclor 1262	ND		ug/kg	43.8	1
Aroclor 1268	ND		ug/kg	43.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-06	Date Collected:	08/21/07 11:10
Client ID:	SP-I2-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 03:23	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	42.7	1
Aroclor 1221	ND		ug/kg	42.7	1
Aroclor 1232	ND		ug/kg	42.7	1
Aroclor 1242	ND		ug/kg	42.7	1
Aroclor 1248	ND		ug/kg	42.7	1
Aroclor 1254	ND		ug/kg	42.7	1
Aroclor 1260	ND		ug/kg	42.7	1
Aroclor 1262	ND		ug/kg	42.7	1
Aroclor 1268	ND		ug/kg	42.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	113		30-150	A
Decachlorobiphenyl	137		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	118		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-07	Date Collected:	08/21/07 11:15
Client ID:	SP-I3-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 03:52	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	74%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	45.0	1
Aroclor 1221	ND		ug/kg	45.0	1
Aroclor 1232	ND		ug/kg	45.0	1
Aroclor 1242	ND		ug/kg	45.0	1
Aroclor 1248	ND		ug/kg	45.0	1
Aroclor 1254	ND		ug/kg	45.0	1
Aroclor 1260	ND		ug/kg	45.0	1
Aroclor 1262	ND		ug/kg	45.0	1
Aroclor 1268	ND		ug/kg	45.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	108		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-08	Date Collected:	08/21/07 11:20
Client ID:	SP-I4-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 04:49	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	43.3	1
Aroclor 1221	ND		ug/kg	43.3	1
Aroclor 1232	ND		ug/kg	43.3	1
Aroclor 1242	ND		ug/kg	43.3	1
Aroclor 1248	ND		ug/kg	43.3	1
Aroclor 1254	ND		ug/kg	43.3	1
Aroclor 1260	ND		ug/kg	43.3	1
Aroclor 1262	ND		ug/kg	43.3	1
Aroclor 1268	ND		ug/kg	43.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-09	Date Collected:	08/21/07 11:25
Client ID:	SP-I5-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 05:18	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	43.3	1
Aroclor 1221	ND		ug/kg	43.3	1
Aroclor 1232	ND		ug/kg	43.3	1
Aroclor 1242	ND		ug/kg	43.3	1
Aroclor 1248	ND		ug/kg	43.3	1
Aroclor 1254	ND		ug/kg	43.3	1
Aroclor 1260	ND		ug/kg	43.3	1
Aroclor 1262	ND		ug/kg	43.3	1
Aroclor 1268	ND		ug/kg	43.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	120		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-10	Date Collected:	08/21/07 11:30
Client ID:	SP-I6-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 05:46	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	44.4	1
Aroclor 1221	ND		ug/kg	44.4	1
Aroclor 1232	ND		ug/kg	44.4	1
Aroclor 1242	ND		ug/kg	44.4	1
Aroclor 1248	ND		ug/kg	44.4	1
Aroclor 1254	ND		ug/kg	44.4	1
Aroclor 1260	ND		ug/kg	44.4	1
Aroclor 1262	ND		ug/kg	44.4	1
Aroclor 1268	ND		ug/kg	44.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-11 RE	Date Collected:	08/21/07 11:35
Client ID:	SP-J1-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	09/04/07 10:30
Analytical Date:	09/04/07 14:06	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	09/04/07
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	41.7	1
Aroclor 1221	ND		ug/kg	41.7	1
Aroclor 1232	ND		ug/kg	41.7	1
Aroclor 1242	ND		ug/kg	41.7	1
Aroclor 1248	ND		ug/kg	41.7	1
Aroclor 1254	ND		ug/kg	41.7	1
Aroclor 1260	ND		ug/kg	41.7	1
Aroclor 1262	ND		ug/kg	41.7	1
Aroclor 1268	ND		ug/kg	41.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-12	Date Collected:	08/21/07 11:40
Client ID:	SP-J2-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 06:43	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	41.2	1
Aroclor 1221	ND		ug/kg	41.2	1
Aroclor 1232	ND		ug/kg	41.2	1
Aroclor 1242	ND		ug/kg	41.2	1
Aroclor 1248	ND		ug/kg	41.2	1
Aroclor 1254	ND		ug/kg	41.2	1
Aroclor 1260	ND		ug/kg	41.2	1
Aroclor 1262	ND		ug/kg	41.2	1
Aroclor 1268	ND		ug/kg	41.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-13	Date Collected:	08/21/07 11:45
Client ID:	SP-J3-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 07:12	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	40.6	1
Aroclor 1221	ND		ug/kg	40.6	1
Aroclor 1232	ND		ug/kg	40.6	1
Aroclor 1242	ND		ug/kg	40.6	1
Aroclor 1248	ND		ug/kg	40.6	1
Aroclor 1254	ND		ug/kg	40.6	1
Aroclor 1260	ND		ug/kg	40.6	1
Aroclor 1262	ND		ug/kg	40.6	1
Aroclor 1268	ND		ug/kg	40.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	112		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-14	Date Collected:	08/21/07 11:50
Client ID:	SP-J4-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 07:41	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	44.4	1
Aroclor 1221	ND		ug/kg	44.4	1
Aroclor 1232	ND		ug/kg	44.4	1
Aroclor 1242	ND		ug/kg	44.4	1
Aroclor 1248	ND		ug/kg	44.4	1
Aroclor 1254	ND		ug/kg	44.4	1
Aroclor 1260	ND		ug/kg	44.4	1
Aroclor 1262	ND		ug/kg	44.4	1
Aroclor 1268	ND		ug/kg	44.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	122		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-15	Date Collected:	08/21/07 11:55
Client ID:	SP-J5-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 08:09	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	79%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	42.2	1
Aroclor 1221	ND		ug/kg	42.2	1
Aroclor 1232	ND		ug/kg	42.2	1
Aroclor 1242	ND		ug/kg	42.2	1
Aroclor 1248	ND		ug/kg	42.2	1
Aroclor 1254	ND		ug/kg	42.2	1
Aroclor 1260	ND		ug/kg	42.2	1
Aroclor 1262	ND		ug/kg	42.2	1
Aroclor 1268	ND		ug/kg	42.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

SAMPLE RESULTS

Lab ID:	L0712529-16	Date Collected:	08/21/07 12:00
Client ID:	SP-J6-20070821-01	Date Received:	08/22/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3545
Anaytical Method:	64,8082	Extraction Date:	08/30/07 04:00
Analytical Date:	09/01/07 08:38	Cleanup Method1:	EPA 3665A
Analyst:	HG	Cleanup Date1:	08/31/07
Percent Solids:	76%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	ND		ug/kg	43.8	1
Aroclor 1221	ND		ug/kg	43.8	1
Aroclor 1232	ND		ug/kg	43.8	1
Aroclor 1242	ND		ug/kg	43.8	1
Aroclor 1248	ND		ug/kg	43.8	1
Aroclor 1254	ND		ug/kg	43.8	1
Aroclor 1260	ND		ug/kg	43.8	1
Aroclor 1262	ND		ug/kg	43.8	1
Aroclor 1268	ND		ug/kg	43.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	113		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 64,8082
Analytical Date: 08/31/07 23:34
Analyst: HG

Extraction Method: EPA 3545
Extraction Date: 08/30/07 04:00
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/31/07

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by MCP 8082 for sample(s): 01,03-10,12-16 Batch: WG292378-1				
Aroclor 1016	ND		ug/kg	33.3
Aroclor 1221	ND		ug/kg	33.3
Aroclor 1232	ND		ug/kg	33.3
Aroclor 1242	ND		ug/kg	33.3
Aroclor 1248	ND		ug/kg	33.3
Aroclor 1254	ND		ug/kg	33.3
Aroclor 1260	ND		ug/kg	33.3
Aroclor 1262	ND		ug/kg	33.3
Aroclor 1268	ND		ug/kg	33.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 64,8082
Analytical Date: 09/04/07 14:34
Analyst: SS

Extraction Method: EPA 3545
Extraction Date: 09/04/07 10:30
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/04/07

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by MCP 8082 for sample(s): 02,11 Batch: WG292805-1				
Aroclor 1016	ND		ug/kg	33.3
Aroclor 1221	ND		ug/kg	33.3
Aroclor 1232	ND		ug/kg	33.3
Aroclor 1242	ND		ug/kg	33.3
Aroclor 1248	ND		ug/kg	33.3
Aroclor 1254	ND		ug/kg	33.3
Aroclor 1260	ND		ug/kg	33.3
Aroclor 1262	ND		ug/kg	33.3
Aroclor 1268	ND		ug/kg	33.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	77		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by MCP 8082 Associated sample(s): 01,03-10,12-16 Batch: WG292378-2 WG292378-3					
Aroclor 1016	87	88	40-140	1	30
Aroclor 1260	116	112	40-140	4	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		106		30-150	A
Decachlorobiphenyl	126		122		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		96		30-150	B
Decachlorobiphenyl	111		117		30-150	B

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by MCP 8082 Associated sample(s): 02,11 Batch: WG292805-2 WG292805-3					
Aroclor 1016	96	79	40-140	19	30
Aroclor 1260	105	84	40-140	22	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		84		30-150	A
Decachlorobiphenyl	88		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		63		30-150	B
Decachlorobiphenyl	73		64		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-01
Client ID: SP-H1-20070820-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil

Date Collected: 08/20/07 14:00
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	76		%	0.10	1	-	08/22/07 16:40	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-02
Client ID: SP-H2-20070820-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil

Date Collected: 08/20/07 14:05
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	76		%	0.10	1	-	08/22/07 16:40	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-03
Client ID: SP-H3-20070820-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil
Date Collected: 08/20/07 14:10
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	77		%	0.10	1	-	08/22/07 16:40	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-04
Client ID: SP-H4-20070820-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil

Date Collected: 08/20/07 14:15
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	79		%	0.10	1	-	08/22/07 16:40	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-05
Client ID: SP-I1-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil
Date Collected: 08/21/07 11:05
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	76		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-06
Client ID: SP-I2-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil
Date Collected: 08/21/07 11:10
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	78		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-07
Client ID: SP-I3-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil
Date Collected: 08/21/07 11:15
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	74		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-08
Client ID: SP-I4-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil
Date Collected: 08/21/07 11:20
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	77		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-09
Client ID: SP-I5-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil
Date Collected: 08/21/07 11:25
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	77		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-10
Client ID: SP-I6-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil

Date Collected: 08/21/07 11:30
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	75		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-11
Client ID: SP-J1-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil

Date Collected: 08/21/07 11:35
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	80		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-12
Client ID: SP-J2-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil

Date Collected: 08/21/07 11:40
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	81		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-13
Client ID: SP-J3-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil
Date Collected: 08/21/07 11:45
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	82		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-14
Client ID: SP-J4-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil

Date Collected: 08/21/07 11:50
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	75		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-15
Client ID: SP-J5-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil

Date Collected: 08/21/07 11:55
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	79		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

SAMPLE RESULTS

Lab ID: L0712529-16
Client ID: SP-J6-20070821-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil

Date Collected: 08/21/07 12:00
Date Received: 08/22/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	76		%	0.10	1	-	08/23/07 15:20	30,2540G	NM

Lab Duplicate Analysis
Batch Quality Control

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712529
Report Date: 09/04/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 05-16 QC Batch ID: WG292581-1 QC Sample: L0712529-05 Client ID: SP-I1-20070821-01					
Solids, Total	76	76	%	0	20

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712529

Project Number: 0051545 **Report Date:** 09/04/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712529-01A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04
L0712529-02A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04
L0712529-03A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04
L0712529-04A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04
L0712529-05A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-06A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-07A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-08A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-09A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-10A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-11A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-12A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-13A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-14A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-15A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04
L0712529-16A	Amber 250ml unpreserved	B	N/A	2.0C	Y	Absent	MCP-8082-04

Container Comments

L0712529-01A	Temp Probe
L0712529-02A	Temp Probe
L0712529-03A	Temp Probe
L0712529-04A	Temp Probe

Project Name:	NA SOIL EXCAVATION	**Lab Number:**	L0712529
Project Number:	0051545	**Report Date:**	09/04/07

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:	NA SOIL EXCAVATION	**Lab Number:**	L0712529
Project Number:	0051545	**Report Date:**	09/04/07

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

64 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

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.

0904072O:06

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 8/21 + 8/22

ALPHA Job #: L0712529

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

Client Information

Client: ERM-Boston

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation

Project Location: Raytheon Wayland

Project #: 0051545

Project Manager: Jason Flattery

ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!)

Date Due: 9/4/07 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: MCP

Criteria: S-2 + GW-1

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:

Relog of L0712125 and L0712074

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: PCB	Sample Specific Comments
12529.1	SP-H1-20070820-01	8/20/07	1400	S		X	Extract by ASE
2	SP-H2-20070820-01		1405				
3	SP-H3-20070820-01		1410				
4	SP-H4-20070820-01		1415				
5	SP-I1-20070821-01	8/21/07	1105				
6	SP-I2-20070821-01		1110				
7	SP-I3-20070821-01		1115				
8	SP-I4-20070821-01		1120				
9	SP-I5-20070821-01		1125				
10	SP-I6-20070821-01		1130				

Container Type															
Preservative															

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
		[signature]	8/21/07 21:45

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

FORM NO: 01-01 (rev. 10-OCT-05)

0904072O:06

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 8/21 + 8/22

ALPHA Job #: L0712529

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

Client Information

Client: ERM-BOSTON
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: MA Soil Excavation
Project Location: Raytheon-Wayland
Project #: 0051545
Project Manager: Jason Flattery
ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!)
Date Due: 9/4/07 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
MCP	S-2 + GW-1

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:

Relog of L0712074 and L0712125

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: PCB	Sample Specific Comments
12529.11	SP-S1-20070821-01	8/21/07	1135	S		X	Extract by ASE
12	SP-S2-20070821-01		1140				
13	SP-S3-20070821-01		1145				
14	SP-S4-20070821-01		1150				
15	SP-S5-20070821-01		1155				
16	SP-S6-20070821-01		1200				

SAMPLE HANDLING

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

Container Type							
Preservative							

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
			8/29/07 21:45

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

FORM NO: 01-01 (rev. 10-OCT-05)

0904072O:06

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: 8/22

ALPHA Job #: L0712125

Client Information

Client: ERM-Boston
Address: 399 Boylston St. 6th Flr
Boston, MA 02116
Phone: 617 646 7800
Fax: 617 267 6447
Email: jason.flattery@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation
Project Location: Raytheon-Wayland
Project #: 0051545
Project Manager: Jason Flattery
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/29 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
MCP	S2 + GW-1

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: TCLP VOA; RCRA 8 TCLP SVOCs, Port-Hole; pH, reactivity, flash; TCLP As, Ba, Cd, Pb, Hg; VOCs (High) 8260; VOCs (Low) 8260; Total Solids

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

ALPHA Lab ID (Lab Use Only)	SampleID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP VOA	RCRA 8 TCLP SVOCs, Port-Hole	pH, reactivity, flash	TCLP As, Ba, Cd, Pb, Hg	VOCs (High) 8260	VOCs (Low) 8260	Total Solids	Sample Specific Comments
12125-01	SP-I1-20070821-01	8/21/07	1105	S	HEA	1	1	1	1	1	1	1	
2	SP-I2-20070821-01		1110										
3	SP-I3-20070821-01		1115										
4	SP-I4-20070821-01		1120										
5	SP-I5-20070821-01		1125										
6	SP-I6-20070821-01		1130										
7	SP-J1-20070821-01		1135										
8	SP-J2-20070821-01		1140										
9	SP-J3-20070821-01		1145										
10	SP-J4-20070821-01		1150										

Container Type	A	A	A	A	V	V	P		
Preservative	A	A	A	A	F	HNO	A		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01 (rev. 10-OCT-05)

Relinquished By:	Date/Time	Received By:	Date/Time
	8/22/07 10:00		8/22 1000
	8/22 11:20		8/22/07 1120

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

0904072O:06

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: 8/22

ALPHA Job #: L0712125

Client Information

Client: ERM Boston
Address: 399 Boylston St. 6th Flor
Boston, MA 02116
Phone: 617 646 7800
Fax: 617 267 6447
Email: jason.flattery@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation
Project Location: Raytheon Wayland
Project #: 0051545
Project Manager: Jason Flattery
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 8/29 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: MCP
Criteria: S2 + GW-1

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)	SampleID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP VOA	PCBs, TCLP SVOCs, Pest., Herb	pH, Reactivity, Flash	TCLP Metals (Ba, Cd, Pb, Se, Ag)	VOCs (High) 8260	VOCs (Low) 8260	Total Solids					Sample Specific Comments
L2125. 11	SP-J5-20070821-01	8/21/07	1155	S	HEA	1	1	1	1	1	1	1					
12	SP-J6-20070821-01	8/21/07	1200	S	HEA	1	1	1	1	1	1	1					
13	DUP-001-20070821-01	8/21/07	2400	S	HEA					1	1	1					
Container Type						A	A	A	A	V	V	P					
Preservative						A	A	A	A	F	HNO	A					

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?

Relinquished By:	Date/Time	Received By:	Date/Time
	8/22/07 10:8		8/22 10:8
	1120		8/22/07 1120

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

FORM NO: 01-01 (rev. 10-OCT-05)

0904072O:06

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8/21

ALPHA Job #: ~~L0712052~~ L0712074

ALPHA
WORLD WIDE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM-Boston
Address: 399 Boylston St. 6th Floor
Boston, MA 02116
Phone: 617 646 7800
Fax: 617 267 6447
Email: jason.flatley@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation
Project Location: Raytheon-Wayland
Project #: 0051545
Project Manager: Jason Flatley
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 3 day on non-TCLP VOCs Time:
OTHERS ASAP PER 3D CHANGE

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
MCP	S2 + GW1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: TCLP VOA; PCBs, TCLP SVOs, Pest, Herb; pH, react, flash; TCLP As, Ba, Cd, Pb, Se, Ag; VOCs (High) 8260; VOCs (Low) 8260; Total Solids

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	TCLP VOA	PCBs, TCLP SVOs, Pest, Herb	pH, react, flash	TCLP As, Ba, Cd, Pb, Se, Ag	VOCs (High) 8260	VOCs (Low) 8260	Total Solids	Sample Specific Comments
~~12052~~ 12074.1	SP-H1-20070820-01	8/20/07	14:00	S	JDF	1	1	1	1	1	1	1	
2	SP-H2-20070820-01		14:05	S		1	1	1	1	1	1	1	
3	SP-H3-20070820-01		14:10	S		1	1	1	1	1	1	1	
4	SP-H4-20070820-01		14:15	S		1	1	1	1	1	1	1	
@ ~~5~~	DUP-001-20070820-01	↓	24:00	S	↓					1	1	1	

Container Type	A	A	A	A	V	V	P	
Preservative	A	A	A	A	F	HNO	A	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	8/21/07 10:45		8/21 1645
	8/21/07 1720		8/21/07 1720

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)

ANALYTICAL REPORT

Lab Number:	L0712559
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	NA SOIL EXCAVATION
Project Number:	0051545
Report Date:	08/31/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712559
Report Date: 08/31/07

Alpha Sample ID	Client ID	Sample Location
L0712559-01	EL-DE1-4-20070830-01	RAYTHEON WAYLAND

Project Name:	NA SOIL EXCAVATION	**Lab Number:**	L0712559
Project Number:	0051545	**Report Date:**	08/31/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	NA SOIL EXCAVATION	**Lab Number:**	L0712559
Project Number:	0051545	**Report Date:**	08/31/07

Case Narrative

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.

MCP Related Narratives

Volatile Organics

L0712559-01 was processed against a calibration curve that utilized a quadratic fit for 2,2-Dichloropropane.

In reference to question E:

The WG292570-4/5 LCS/LCSD % recoveries for Dichlorodifluoromethane and 2,2-Dichloropropane are below the individual acceptance criteria for the compounds, but within the overall method allowances.

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:

Title: Technical Director/Representative Date: 08/31/07

ORGANICS

VOLATILES

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712559

Project Number: 0051545 **Report Date:** 08/31/07

SAMPLE RESULTS

Lab ID:	L0712559-01	Date Collected:	08/30/07 14:20
Client ID:	EL-DE1-4-20070830-01	Date Received:	08/30/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil		
Anaytical Method:	60,8260B		
Analytical Date:	08/31/07 11:56		
Analyst:	GK		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.6	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	1.2		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.2	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.2	1
Bromoform	ND		ug/kg	4.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.2	1
Bromomethane	ND		ug/kg	2.1	1
Vinyl chloride	ND		ug/kg	2.1	1
Chloroethane	ND		ug/kg	2.1	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	6.5		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	1

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712559

Project Number: 0051545 **Report Date:** 08/31/07

SAMPLE RESULTS

Lab ID: L0712559-01 Date Collected: 08/30/07 14:20

Client ID: EL-DE1-4-20070830-01 Date Received: 08/30/07

Sample Location: RAYTHEON WAYLAND Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
1,4-Dichlorobenzene	ND		ug/kg	5.2	1
Methyl tert butyl ether	ND		ug/kg	2.1	1
p/m-Xylene	ND		ug/kg	2.1	1
o-Xylene	ND		ug/kg	2.1	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.1	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	ND		ug/kg	10	1
Carbon disulfide	ND		ug/kg	52	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.2	1
Tetrahydrofuran	ND		ug/kg	21	1
2,2-Dichloropropane	ND		ug/kg	5.2	1
1,2-Dibromoethane	ND		ug/kg	4.2	1
1,3-Dichloropropane	ND		ug/kg	5.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.2	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.2	1
o-Chlorotoluene	ND		ug/kg	5.2	1
p-Chlorotoluene	ND		ug/kg	5.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	1
Hexachlorobutadiene	ND		ug/kg	5.2	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.2	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	1
Ethyl ether	ND		ug/kg	5.2	1

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712559

Project Number: 0051545 **Report Date:** 08/31/07

SAMPLE RESULTS

Lab ID: L0712559-01 Date Collected: 08/30/07 14:20

Client ID: EL-DE1-4-20070830-01 Date Received: 08/30/07

Sample Location: RAYTHEON WAYLAND Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.2	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.2	1
1,4-Dioxane	ND		ug/kg	520	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712559
Report Date: 08/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/31/07 11:20
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01 Batch: WG292570-6				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712559
Report Date: 08/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/31/07 11:20
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01 Batch: WG292570-6				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712559
Report Date: 08/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/31/07 11:20
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01 Batch: WG292570-6				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712559

Report Date: 08/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01 Batch: WG292570-4 WG292570-5					
Methylene chloride	88	86	70-130	2	25
1,1-Dichloroethane	104	109	70-130	5	25
Chloroform	108	111	70-130	3	25
Carbon tetrachloride	100	108	70-130	8	25
1,2-Dichloropropane	108	109	70-130	1	25
Dibromochloromethane	103	104	70-130	1	25
1,1,2-Trichloroethane	109	108	70-130	1	25
Tetrachloroethene	115	115	70-130	0	25
Chlorobenzene	111	111	70-130	0	25
Trichlorofluoromethane	96	102	70-130	6	25
1,2-Dichloroethane	106	110	70-130	4	25
1,1,1-Trichloroethane	105	110	70-130	5	25
Bromodichloromethane	107	112	70-130	5	25
trans-1,3-Dichloropropene	97	99	70-130	2	25
cis-1,3-Dichloropropene	100	103	70-130	3	25
1,1-Dichloropropene	104	107	70-130	3	25
Bromoform	100	106	70-130	6	50
1,1,2,2-Tetrachloroethane	101	103	70-130	2	25
Benzene	106	108	70-130	2	25
Toluene	106	108	70-130	2	25
Ethylbenzene	110	113	70-130	3	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712559

Report Date: 08/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01 Batch: WG292570-4 WG292570-5					
Chloromethane	82	87	70-130	6	50
Bromomethane	110	113	70-130	3	50
Vinyl chloride	90	94	70-130	4	25
Chloroethane	118	117	70-130	1	25
1,1-Dichloroethene	106	107	70-130	1	25
trans-1,2-Dichloroethene	106	107	70-130	1	25
Trichloroethene	110	109	70-130	1	25
1,2-Dichlorobenzene	104	110	70-130	6	25
1,3-Dichlorobenzene	104	111	70-130	7	25
1,4-Dichlorobenzene	101	110	70-130	9	25
Methyl tert butyl ether	72	71	70-130	1	25
p/m-Xylene	111	116	70-130	4	25
o-Xylene	106	110	70-130	4	25
cis-1,2-Dichloroethene	114	114	70-130	0	25
Dibromomethane	111	109	70-130	2	25
1,2,3-Trichloropropane	109	112	70-130	3	25
Styrene	104	106	70-130	2	25
Dichlorodifluoromethane	**42**	**42**	70-130	0	50
Acetone	94	76	70-130	21	50
Carbon disulfide	83	84	70-130	1	25
2-Butanone	84	88	70-130	5	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712559

Report Date: 08/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01 Batch: WG292570-4 WG292570-5					
4-Methyl-2-pentanone	100	99	70-130	1	50
2-Hexanone	90	92	70-130	2	50
Bromochloromethane	108	110	70-130	2	25
Tetrahydrofuran	90	87	70-130	3	25
2,2-Dichloropropane	**60**	**69**	70-130	14	50
1,2-Dibromoethane	113	115	70-130	2	25
1,3-Dichloropropane	112	112	70-130	0	25
1,1,1,2-Tetrachloroethane	114	112	70-130	2	25
Bromobenzene	108	112	70-130	4	25
n-Butylbenzene	82	88	70-130	7	25
sec-Butylbenzene	106	112	70-130	6	25
tert-Butylbenzene	105	114	70-130	8	25
o-Chlorotoluene	102	108	70-130	6	25
p-Chlorotoluene	102	110	70-130	8	25
1,2-Dibromo-3-chloropropane	89	94	70-130	5	50
Hexachlorobutadiene	99	109	70-130	10	25
Isopropylbenzene	114	122	70-130	7	25
p-Isopropyltoluene	112	119	70-130	6	25
Naphthalene	107	113	70-130	5	25
n-Propylbenzene	103	110	70-130	7	25
1,2,3-Trichlorobenzene	103	111	70-130	7	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712559

Report Date: 08/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01 Batch: WG292570-4 WG292570-5					
1,2,4-Trichlorobenzene	101	110	70-130	9	25
1,3,5-Trimethylbenzene	103	109	70-130	6	25
1,2,4-Trimethylbenzene	106	112	70-130	6	25
Ethyl ether	103	105	70-130	2	25
Isopropyl Ether	95	96	70-130	1	25
Ethyl-Tert-Butyl-Ether	78	80	70-130	3	25
Tertiary-Amyl Methyl Ether	82	85	70-130	4	25
1,4-Dioxane	95	96	70-130	1	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		90		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	87		91		70-130
Dibromofluoromethane	95		99		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712559
Report Date: 08/31/07

SAMPLE RESULTS

Lab ID: L0712559-01
Client ID: EL-DE1-4-20070830-01
Sample Location: RAYTHEON WAYLAND
Matrix: Soil
Date Collected: 08/30/07 14:20
Date Received: 08/30/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	80		%	0.10	1	-	08/31/07 08:20	30,2540G	ST

Lab Duplicate Analysis
Batch Quality Control

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712559
Report Date: 08/31/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01 QC Batch ID: WG292571-1 QC Sample: L0712559-01 Client ID: EL-DE1-4-20070830-01					
Solids, Total	80	81	%	1	20

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712559
Report Date: 08/31/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712559-01A	Vial MeOH preserved	A	N/A	2 C	Y	Absent	MCP-8260LW-04
L0712559-01B	Vial water preserved	A	N/A	2 C	Y	Absent	MCP-8260LW-04
L0712559-01C	Plastic 2oz unpreserved for TS	A	N/A	2 C	Y	Absent	TS

Project Name:	NA SOIL EXCAVATION	**Lab Number:**	L0712559
Project Number:	0051545	**Report Date:**	08/31/07

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:	NA SOIL EXCAVATION	**Lab Number:**	L0712559
Project Number:	0051545	**Report Date:**	08/31/07

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

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.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8/30

ALPHA Job #: L0712559

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

08310715:51

Client Information

Client: ERM-Boston
Address: 399 Boylston St. 6th Floor
Boston, MA 02116
Phone: 617 646 7800
Fax: 617 267 6447
Email: jeremy.picard@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation
Project Location: Raytheon Wayland
Project #: 0051545
Project Manager: Jeremy Picard
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 24 HR 8/31 Time:

Other Project Specific Requirements/Comments/Detection Limits:

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
MCP	S-2/GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 HIGH	VOCs 8260 Low	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
2559.1	EL-DE1-4-20070830-01	8/30/07	14:20	S	HEA	1	1	1		3

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

Container Type	V	V	P											
Preservative	F	HNO	A											

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	30/8/07 16:55		8/30 1655

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 1 OF 1

Date Rec'd in Lab: 8/23/07

ALPHA Job #: L071213

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

Client Information

Client: ERM-Boston
Address: 399 Boylston St 6TH Floor, Boston, MA 02116
Phone: (617) 646-7800
Fax: (617) 267-6447
Email: jason.flattery@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation
Project Location: Raytheon - Wayland
Project #: 0051545
Project Manager: Jason Flattery
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 24 hr Time: 8/27/07

Other Project Specific Requirements/Comments/Detection Limits:

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	Unlined Landfill Reuse 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?

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	VOCs (HIGH) 8260	VOCs (LOW) 8260	Total Solids	PCBs, SVOCs, TPH	TCLP 4 15 Cd, Cr Pb, Hg	Grain Size	Sample Specific Comments	TOTAL # BOTTLES
12213-01	CF-1-20070823-01	8/23/07	9:15	S	JDF	X	X	X	X	X			5
-02	CF-2-20070823-01		9:20			X	X	X	X	X	X		6
-03	CF-3-20070823-01		9:25			X	X	X	X	X			5
-04	CF-4-20070823-01		9:30			X	X	X	X	X	X		6
-05	CF-5-20070823-01		9:35			X	X	X	X	X			5
-06	CF-6-20070823-01		9:40			X	X	X	X	X	X		6
-07	DUP-001-20070823-01		24:00			X	X	X					3
-08	TB-001-20070823-01	8/22/07	14:15	TB Water	DS		X						1

Container Type	V	V	P	A	A	A	
Preservative	H_2O	H_2O	N/A	N/A	N/A	N/A	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	8/23/07 12:50		8/23 12:50
	8/23 1330		8/23/07 1330

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)

ESS Laboratory
Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

Mary Davis
Alpha Analytical
8 Walkup Drive
Westborough, MA 01581

RE: Alpha Analytical Sampling
ESS Laboratory Work Order Number: 0708357

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Date: August 27, 2007

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.
Holding time and preservation requirements for all MCP analytes were achieved, unless otherwise noted in this Project Narrative.

Sample Receipt
The following samples were received on August 23, 2007 for the analyses specified on the enclosed Chain of Custody Record.

Laboratory ID	Matrix	Client Sample ID
0708357-01	Soil	L0712213-01
0708357-02	Soil	L0712213-02
0708357-03	Soil	L0712213-03
0708357-04	Soil	L0712213-04
0708357-05	Soil	L0712213-05
0708357-06	Soil	L0712213-06
0708357-07	Soil	L0712213-07
0708357-08	Solid	Trip Blank L0712213-08

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling

ESS Laboratory Work Order: 0708357

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

0708357-01		Due to equipment malfunction, surrogates were not added to any of the low level VOA samples resulting in no recovery for any of the surrogates. Only 1 vial was received. All associated LCS and Internal Standard data was within criteria.
	1,2-Dichloroethane-d4	Outside QC Limits.
	4-Bromofluorobenzene	Outside QC Limits.
	Dibromofluoromethane	Outside QC Limits.
	Toluene-d8	Outside QC Limits.
0708357-02		Due to equipment malfunction, surrogates were not added to any of the low level VOA samples resulting in no recovery for any of the surrogates. Only 1 vial was received. All associated LCS and Internal Standard data was within criteria.
	1,2-Dichloroethane-d4	Outside QC Limits.
	4-Bromofluorobenzene	Outside QC Limits.
	Dibromofluoromethane	Outside QC Limits.
	Toluene-d8	Outside QC Limits.
0708357-03		Due to equipment malfunction, surrogates were not added to any of the low level VOA samples resulting in no recovery for any of the surrogates. Only 1 vial was received. All associated LCS and Internal Standard data was within criteria.
	1,2-Dichloroethane-d4	Outside QC Limits.
	4-Bromofluorobenzene	Outside QC Limits.
	Dibromofluoromethane	Outside QC Limits.
	Toluene-d8	Outside QC Limits.
0708357-04		Due to equipment malfunction, surrogates were not added to any of the low level VOA samples resulting in no recovery for any of the surrogates. Only 1 vial was received. All associated LCS and Internal Standard data was within criteria.
	1,2-Dichloroethane-d4	Outside QC Limits.
	4-Bromofluorobenzene	Outside QC Limits.
	Dibromofluoromethane	Outside QC Limits.
	Toluene-d8	Outside QC Limits.
0708357-05		Due to equipment malfunction, surrogates were not added to any of the low level VOA samples resulting in no recovery for any of the surrogates. Only 1 vial was received. All associated LCS and Internal Standard data was within criteria.
	1,2-Dichloroethane-d4	Outside QC Limits.
	4-Bromofluorobenzene	Outside QC Limits.
	Dibromofluoromethane	Outside QC Limits.
	Toluene-d8	Outside QC Limits.

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling

ESS Laboratory Work Order: 0708357

0708357-06		Due to equipment malfunction, surrogates were not added to any of the low level VOA samples resulting in no recovery for any of the surrogates. Only 1 vial was received. All associated LCS data was within criteria.
	1,2-Dichloroethane-d4	Outside QC Limits.
	1,4-Dichlorobenzene-D4	Internal Standard was outside of criteria due to matrix (UCM present).
	1,4-Dichlorobenzene-D4	Internal Standard is outisde of criteria. Insufficient sample for reanalysis.
	4-Bromofluorobenzene	Outside QC Limits.
	Chlorobenzene-d5	Internal Standard was outside of criteria due to matrix (UCM present).
	Chlorobenzene-d5	Internal Standard is outisde of criteria. Insufficient sample for reanalysis.
	Dibromofluoromethane	Outside QC Limits.
	Fluorobenzene	Internal Standard was outside of criteria due to matrix (UCM present).
	Fluorobenzene	Internal Standard is outisde of criteria. Insufficient sample for reanalysis.
	Toluene-d8	Outside QC Limits.
0708357-07		Due to equipment malfunction, surrogates were not added to any of the low level VOA samples resulting in no recovery for any of the surrogates. Only 1 vial was received. All associated LCS and Internal Standard data was within criteria.
	1,2-Dichloroethane-d4	Outside QC Limits.
	4-Bromofluorobenzene	Outside QC Limits.
	Dibromofluoromethane	Outside QC Limits.
	Toluene-d8	Outside QC Limits.
0708357-08		Due to equipment malfunction, surrogates were not added to any of the low level VOA samples resulting in no recovery for any of the surrogates. Only 1 vial was received. All associated LCS and Internal Standard data was within criteria.
	1,2-Dichloroethane-d4	Outside QC Limits.
	4-Bromofluorobenzene	Outside QC Limits.
	Dibromofluoromethane	Outside QC Limits.
	Toluene-d8	Outside QC Limits.
BH72405-BLK1	1,2-Dichloroethane-d4	Outside QC Limits.
	4-Bromofluorobenzene	Outside QC Limits.
	Dibromofluoromethane	Outside QC Limits.
	Toluene-d8	Outside QC Limits.

No other observations noted.

End of Project Narrative.

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling

ESS Laboratory Work Order: 0708357

MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*: _____

This form provides certification for the following data set:
0708357-01 through 0708357-08

Sample Matricies: ( ) Ground Water (X) Soil/Sediment ( ) Drinking Water ( ) Other: _____

MCP SW-846 Methods Used					
8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M** ( )
8082 ( )	8021B ( )	EPH ( )	7000 S*** ( )	7194A ( )

As specified in MADEP Compendium of Analytical Methods (Check all that apply)

* List Release Tracking Number (RTN), if known.
** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method
*** S - SW - 846 Methods 7000 Series - List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	(Yes)	No*
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	(Yes)	No*
C	Does the data included in the report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	(Yes)	No*
D	***VPH and EPH methods only:*** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)?	Yes	No*

A response to questions E and F below required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specific methods achieved?	Yes	(No*)
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	(Yes)	No*

****All negative responses must be addressed in an attached Environmental Laboratory Case Narrative.***

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 analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard Date: August 27, 2007

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-01
Date Sampled: 08/23/07 09:15
Percent Solids: 96
Initial Volume: 5.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-01
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	MA - S2GW1 Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,1,1-Trichloroethane	ND	mg/kg dry	0.0046	30	1	08/24/07
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0046	0.005	1	08/24/07
1,1,2-Trichloroethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,1-Dichloroethane	ND	mg/kg dry	0.0046	0.4	1	08/24/07
1,1-Dichloroethene	ND	mg/kg dry	0.0046	3	1	08/24/07
1,1-Dichloropropene	ND	mg/kg dry	0.0046		1	08/24/07
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0046		1	08/24/07
1,2,3-Trichloropropane	ND	mg/kg dry	0.0046		1	08/24/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0046	2	1	08/24/07
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0046		1	08/24/07
1,2-Dibromoethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.0046	9	1	08/24/07
1,2-Dichloroethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,2-Dichloropropane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.0046	1	1	08/24/07
1,3-Dichloropropane	ND	mg/kg dry	0.0046		1	08/24/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.0046	0.7	1	08/24/07
1,4-Dioxane - Screen	ND	mg/kg dry	0.228		1	08/24/07
2,2-Dichloropropane	ND	mg/kg dry	0.0046		1	08/24/07
2-Butanone	ND	mg/kg dry	0.0457	0.3	1	08/24/07
2-Chlorotoluene	ND	mg/kg dry	0.0046		1	08/24/07
2-Hexanone	ND	mg/kg dry	0.0457		1	08/24/07
4-Chlorotoluene	ND	mg/kg dry	0.0046		1	08/24/07
4-Isopropyltoluene	ND	mg/kg dry	0.0046	100	1	08/24/07
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0457	0.4	1	08/24/07
Acetone	ND	mg/kg dry	0.0457	3	1	08/24/07
Benzene	ND	mg/kg dry	0.0046	2	1	08/24/07
Bromobenzene	ND	mg/kg dry	0.0046		1	08/24/07
Bromochloromethane	ND	mg/kg dry	0.0046		1	08/24/07
Bromodichloromethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
Bromoform	ND	mg/kg dry	0.0046	0.1	1	08/24/07
Bromomethane	ND	mg/kg dry	0.0091	10	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-01
Date Sampled: 08/23/07 09:15
Percent Solids: 96
Initial Volume: 5.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-01
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Carbon Disulfide	ND	mg/kg dry	0.0046		1	08/24/07
Carbon Tetrachloride	ND	mg/kg dry	0.0046	10	1	08/24/07
Chlorobenzene	ND	mg/kg dry	0.0046	1	1	08/24/07
Chloroethane	ND	mg/kg dry	0.0091		1	08/24/07
Chloroform	ND	mg/kg dry	0.0046	0.1	1	08/24/07
Chloromethane	ND	mg/kg dry	0.0091		1	08/24/07
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0046	0.3	1	08/24/07
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0046	0.01	1	08/24/07
Dibromochloromethane	ND	mg/kg dry	0.0046	0.005	1	08/24/07
Dibromomethane	ND	mg/kg dry	0.0046		1	08/24/07
Dichlorodifluoromethane	ND	mg/kg dry	0.0091		1	08/24/07
Diethyl Ether	ND	mg/kg dry	0.0046		1	08/24/07
Di-isopropyl ether	ND	mg/kg dry	0.0046		1	08/24/07
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0046		1	08/24/07
Ethylbenzene	ND	mg/kg dry	0.0046	80	1	08/24/07
Hexachlorobutadiene	ND	mg/kg dry	0.0046	90	1	08/24/07
Isopropylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0046	0.1	1	08/24/07
Methylene Chloride	ND	mg/kg dry	0.0228	0.1	1	08/24/07
Naphthalene	ND	mg/kg dry	0.0046	4	1	08/24/07
n-Butylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
n-Propylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
sec-Butylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
Styrene	ND	mg/kg dry	0.0046	3	1	08/24/07
tert-Butylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0046		1	08/24/07
Tetrachloroethene	ND	mg/kg dry	0.0046	1	1	08/24/07
Tetrahydrofuran	ND	mg/kg dry	0.0046		1	08/24/07
Toluene	ND	mg/kg dry	0.0046	30	1	08/24/07
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0046	1	1	08/24/07
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0046	0.01	1	08/24/07
Trichloroethene	ND	mg/kg dry	0.0046	0.3	1	08/24/07
Trichlorofluoromethane	ND	mg/kg dry	0.0046		1	08/24/07
Vinyl Chloride	ND	mg/kg dry	0.0091	0.9	1	08/24/07
Xylene O	ND	mg/kg dry	0.0046	400	1	08/24/07
Xylene P,M	ND	mg/kg dry	0.0091	400	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-01
Date Sampled: 08/23/07 09:15
Percent Solids: 96
Initial Volume: 1
Final Volume: 1
Extraction Method: [CALC]

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-01
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Xylenes (Total)	ND	mg/kg dry	0.0137	400	0	08/24/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*0.7 %*	+	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.2 %*	+	*70-130*
Surrogate: Dibromofluoromethane	*0.8 %*	+	*70-130*
Surrogate: Toluene-d8	*0.1 %*	+	*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-02
Date Sampled: 08/23/07 09:20
Percent Solids: 94
Initial Volume: 5.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-02
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	MA - S2GW1 Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,1,1-Trichloroethane	ND	mg/kg dry	0.0048	30	1	08/24/07
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0048	0.005	1	08/24/07
1,1,2-Trichloroethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,1-Dichloroethane	ND	mg/kg dry	0.0048	0.4	1	08/24/07
1,1-Dichloroethene	ND	mg/kg dry	0.0048	3	1	08/24/07
1,1-Dichloropropene	ND	mg/kg dry	0.0048		1	08/24/07
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0048		1	08/24/07
1,2,3-Trichloropropane	ND	mg/kg dry	0.0048		1	08/24/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0048	2	1	08/24/07
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0048		1	08/24/07
1,2-Dibromoethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.0048	9	1	08/24/07
1,2-Dichloroethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,2-Dichloropropane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.0048	1	1	08/24/07
1,3-Dichloropropane	ND	mg/kg dry	0.0048		1	08/24/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.0048	0.7	1	08/24/07
1,4-Dioxane - Screen	ND	mg/kg dry	0.242		1	08/24/07
2,2-Dichloropropane	ND	mg/kg dry	0.0048		1	08/24/07
2-Butanone	ND	mg/kg dry	0.0484	0.3	1	08/24/07
2-Chlorotoluene	ND	mg/kg dry	0.0048		1	08/24/07
2-Hexanone	ND	mg/kg dry	0.0484		1	08/24/07
4-Chlorotoluene	ND	mg/kg dry	0.0048		1	08/24/07
4-Isopropyltoluene	ND	mg/kg dry	0.0048	100	1	08/24/07
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0484	0.4	1	08/24/07
Acetone	ND	mg/kg dry	0.0484	3	1	08/24/07
Benzene	ND	mg/kg dry	0.0048	2	1	08/24/07
Bromobenzene	ND	mg/kg dry	0.0048		1	08/24/07
Bromochloromethane	ND	mg/kg dry	0.0048		1	08/24/07
Bromodichloromethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Bromoform	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Bromomethane	ND	mg/kg dry	0.0097	10	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-02
Date Sampled: 08/23/07 09:20
Percent Solids: 94
Initial Volume: 5.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-02
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Carbon Disulfide	ND	mg/kg dry	0.0048		1	08/24/07
Carbon Tetrachloride	ND	mg/kg dry	0.0048	10	1	08/24/07
Chlorobenzene	ND	mg/kg dry	0.0048	1	1	08/24/07
Chloroethane	ND	mg/kg dry	0.0097		1	08/24/07
Chloroform	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Chloromethane	ND	mg/kg dry	0.0097		1	08/24/07
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0048	0.3	1	08/24/07
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0048	0.01	1	08/24/07
Dibromochloromethane	ND	mg/kg dry	0.0048	0.005	1	08/24/07
Dibromomethane	ND	mg/kg dry	0.0048		1	08/24/07
Dichlorodifluoromethane	ND	mg/kg dry	0.0097		1	08/24/07
Diethyl Ether	ND	mg/kg dry	0.0048		1	08/24/07
Di-isopropyl ether	ND	mg/kg dry	0.0048		1	08/24/07
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0048		1	08/24/07
Ethylbenzene	ND	mg/kg dry	0.0048	80	1	08/24/07
Hexachlorobutadiene	ND	mg/kg dry	0.0048	90	1	08/24/07
Isopropylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Methylene Chloride	ND	mg/kg dry	0.0242	0.1	1	08/24/07
Naphthalene	ND	mg/kg dry	0.0048	4	1	08/24/07
n-Butylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
n-Propylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
sec-Butylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
Styrene	ND	mg/kg dry	0.0048	3	1	08/24/07
tert-Butylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0048		1	08/24/07
Tetrachloroethene	ND	mg/kg dry	0.0048	1	1	08/24/07
Tetrahydrofuran	ND	mg/kg dry	0.0048		1	08/24/07
Toluene	ND	mg/kg dry	0.0048	30	1	08/24/07
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0048	1	1	08/24/07
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0048	0.01	1	08/24/07
Trichloroethene	ND	mg/kg dry	0.0048	0.3	1	08/24/07
Trichlorofluoromethane	ND	mg/kg dry	0.0048		1	08/24/07
Vinyl Chloride	ND	mg/kg dry	0.0097	0.9	1	08/24/07
Xylene O	ND	mg/kg dry	0.0048	400	1	08/24/07
Xylene P,M	ND	mg/kg dry	0.0097	400	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-02
Date Sampled: 08/23/07 09:20
Percent Solids: 94
Initial Volume: 1
Final Volume: 1
Extraction Method: [CALC]

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-02
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Xylenes (Total)	ND	mg/kg dry	0.0145	400	0	08/24/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*0.5 %*	*+*	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.2 %*	*+*	*70-130*
Surrogate: Dibromofluoromethane	*0.8 %*	*+*	*70-130*
Surrogate: Toluene-d8	*0.08 %*	*+*	*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-03
Date Sampled: 08/23/07 09:25
Percent Solids: 95
Initial Volume: 5.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-03
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	MA - S2GW1 Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,1,1-Trichloroethane	ND	mg/kg dry	0.0048	30	1	08/24/07
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0048	0.005	1	08/24/07
1,1,2-Trichloroethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,1-Dichloroethane	ND	mg/kg dry	0.0048	0.4	1	08/24/07
1,1-Dichloroethene	ND	mg/kg dry	0.0048	3	1	08/24/07
1,1-Dichloropropene	ND	mg/kg dry	0.0048		1	08/24/07
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0048		1	08/24/07
1,2,3-Trichloropropane	ND	mg/kg dry	0.0048		1	08/24/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0048	2	1	08/24/07
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0048		1	08/24/07
1,2-Dibromoethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.0048	9	1	08/24/07
1,2-Dichloroethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,2-Dichloropropane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.0048	1	1	08/24/07
1,3-Dichloropropane	ND	mg/kg dry	0.0048		1	08/24/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.0048	0.7	1	08/24/07
1,4-Dioxane - Screen	ND	mg/kg dry	0.239		1	08/24/07
2,2-Dichloropropane	ND	mg/kg dry	0.0048		1	08/24/07
2-Butanone	ND	mg/kg dry	0.0478	0.3	1	08/24/07
2-Chlorotoluene	ND	mg/kg dry	0.0048		1	08/24/07
2-Hexanone	ND	mg/kg dry	0.0478		1	08/24/07
4-Chlorotoluene	ND	mg/kg dry	0.0048		1	08/24/07
4-Isopropyltoluene	ND	mg/kg dry	0.0048	100	1	08/24/07
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0478	0.4	1	08/24/07
Acetone	ND	mg/kg dry	0.0478	3	1	08/24/07
Benzene	ND	mg/kg dry	0.0048	2	1	08/24/07
Bromobenzene	ND	mg/kg dry	0.0048		1	08/24/07
Bromochloromethane	ND	mg/kg dry	0.0048		1	08/24/07
Bromodichloromethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Bromoform	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Bromomethane	ND	mg/kg dry	0.0096	10	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-03
Date Sampled: 08/23/07 09:25
Percent Solids: 95
Initial Volume: 5.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-03
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Carbon Disulfide	ND	mg/kg dry	0.0048		1	08/24/07
Carbon Tetrachloride	ND	mg/kg dry	0.0048	10	1	08/24/07
Chlorobenzene	ND	mg/kg dry	0.0048	1	1	08/24/07
Chloroethane	ND	mg/kg dry	0.0096		1	08/24/07
Chloroform	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Chloromethane	ND	mg/kg dry	0.0096		1	08/24/07
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0048	0.3	1	08/24/07
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0048	0.01	1	08/24/07
Dibromochloromethane	ND	mg/kg dry	0.0048	0.005	1	08/24/07
Dibromomethane	ND	mg/kg dry	0.0048		1	08/24/07
Dichlorodifluoromethane	ND	mg/kg dry	0.0096		1	08/24/07
Diethyl Ether	ND	mg/kg dry	0.0048		1	08/24/07
Di-isopropyl ether	ND	mg/kg dry	0.0048		1	08/24/07
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0048		1	08/24/07
Ethylbenzene	ND	mg/kg dry	0.0048	80	1	08/24/07
Hexachlorobutadiene	ND	mg/kg dry	0.0048	90	1	08/24/07
Isopropylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Methylene Chloride	ND	mg/kg dry	0.0239	0.1	1	08/24/07
Naphthalene	ND	mg/kg dry	0.0048	4	1	08/24/07
n-Butylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
n-Propylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
sec-Butylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
Styrene	ND	mg/kg dry	0.0048	3	1	08/24/07
tert-Butylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0048		1	08/24/07
Tetrachloroethene	ND	mg/kg dry	0.0048	1	1	08/24/07
Tetrahydrofuran	ND	mg/kg dry	0.0048		1	08/24/07
Toluene	ND	mg/kg dry	0.0048	30	1	08/24/07
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0048	1	1	08/24/07
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0048	0.01	1	08/24/07
Trichloroethene	ND	mg/kg dry	0.0048	0.3	1	08/24/07
Trichlorofluoromethane	ND	mg/kg dry	0.0048		1	08/24/07
Vinyl Chloride	ND	mg/kg dry	0.0096	0.9	1	08/24/07
Xylene O	ND	mg/kg dry	0.0048	400	1	08/24/07
Xylene P,M	ND	mg/kg dry	0.0096	400	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-03
Date Sampled: 08/23/07 09:25
Percent Solids: 95
Initial Volume: 1
Final Volume: 1
Extraction Method: [CALC]

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-03
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Xylenes (Total)	ND	mg/kg dry	0.0144	400	0	08/24/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*0.3 %*	*+*	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.2 %*	*+*	*70-130*
Surrogate: Dibromofluoromethane	*0.7 %*	*+*	*70-130*
Surrogate: Toluene-d8	*0.1 %*	*+*	*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-04
Date Sampled: 08/23/07 09:30
Percent Solids: 93
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-04
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

MA - S2GW1

Analyte	Results	Units	MRL	Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,1,1-Trichloroethane	ND	mg/kg dry	0.0046	30	1	08/24/07
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0046	0.005	1	08/24/07
1,1,2-Trichloroethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,1-Dichloroethane	ND	mg/kg dry	0.0046	0.4	1	08/24/07
1,1-Dichloroethene	ND	mg/kg dry	0.0046	3	1	08/24/07
1,1-Dichloropropene	ND	mg/kg dry	0.0046		1	08/24/07
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0046		1	08/24/07
1,2,3-Trichloropropane	ND	mg/kg dry	0.0046		1	08/24/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0046	2	1	08/24/07
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0046		1	08/24/07
1,2-Dibromoethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.0046	9	1	08/24/07
1,2-Dichloroethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,2-Dichloropropane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.0046	1	1	08/24/07
1,3-Dichloropropane	ND	mg/kg dry	0.0046		1	08/24/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.0046	0.7	1	08/24/07
1,4-Dioxane - Screen	ND	mg/kg dry	0.232		1	08/24/07
2,2-Dichloropropane	ND	mg/kg dry	0.0046		1	08/24/07
2-Butanone	ND	mg/kg dry	0.0463	0.3	1	08/24/07
2-Chlorotoluene	ND	mg/kg dry	0.0046		1	08/24/07
2-Hexanone	ND	mg/kg dry	0.0463		1	08/24/07
4-Chlorotoluene	ND	mg/kg dry	0.0046		1	08/24/07
4-Isopropyltoluene	ND	mg/kg dry	0.0046	100	1	08/24/07
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0463	0.4	1	08/24/07
Acetone	ND	mg/kg dry	0.0463	3	1	08/24/07
Benzene	ND	mg/kg dry	0.0046	2	1	08/24/07
Bromobenzene	ND	mg/kg dry	0.0046		1	08/24/07
Bromochloromethane	ND	mg/kg dry	0.0046		1	08/24/07
Bromodichloromethane	ND	mg/kg dry	0.0046	0.1	1	08/24/07
Bromoform	ND	mg/kg dry	0.0046	0.1	1	08/24/07
Bromomethane	ND	mg/kg dry	0.0093	10	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-04
Date Sampled: 08/23/07 09:30
Percent Solids: 93
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-04
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Carbon Disulfide	ND	mg/kg dry	0.0046		1	08/24/07
Carbon Tetrachloride	ND	mg/kg dry	0.0046	10	1	08/24/07
Chlorobenzene	ND	mg/kg dry	0.0046	1	1	08/24/07
Chloroethane	ND	mg/kg dry	0.0093		1	08/24/07
Chloroform	ND	mg/kg dry	0.0046	0.1	1	08/24/07
Chloromethane	ND	mg/kg dry	0.0093		1	08/24/07
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0046	0.3	1	08/24/07
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0046	0.01	1	08/24/07
Dibromochloromethane	ND	mg/kg dry	0.0046	0.005	1	08/24/07
Dibromomethane	ND	mg/kg dry	0.0046		1	08/24/07
Dichlorodifluoromethane	ND	mg/kg dry	0.0093		1	08/24/07
Diethyl Ether	ND	mg/kg dry	0.0046		1	08/24/07
Di-isopropyl ether	ND	mg/kg dry	0.0046		1	08/24/07
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0046		1	08/24/07
Ethylbenzene	ND	mg/kg dry	0.0046	80	1	08/24/07
Hexachlorobutadiene	ND	mg/kg dry	0.0046	90	1	08/24/07
Isopropylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0046	0.1	1	08/24/07
Methylene Chloride	ND	mg/kg dry	0.0232	0.1	1	08/24/07
Naphthalene	ND	mg/kg dry	0.0046	4	1	08/24/07
n-Butylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
n-Propylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
sec-Butylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
Styrene	ND	mg/kg dry	0.0046	3	1	08/24/07
tert-Butylbenzene	ND	mg/kg dry	0.0046	100	1	08/24/07
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0046		1	08/24/07
Tetrachloroethene	ND	mg/kg dry	0.0046	1	1	08/24/07
Tetrahydrofuran	ND	mg/kg dry	0.0046		1	08/24/07
Toluene	ND	mg/kg dry	0.0046	30	1	08/24/07
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0046	1	1	08/24/07
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0046	0.01	1	08/24/07
Trichloroethene	ND	mg/kg dry	0.0046	0.3	1	08/24/07
Trichlorofluoromethane	ND	mg/kg dry	0.0046		1	08/24/07
Vinyl Chloride	ND	mg/kg dry	0.0093	0.9	1	08/24/07
Xylene O	ND	mg/kg dry	0.0046	400	1	08/24/07
Xylene P,M	ND	mg/kg dry	0.0093	400	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-04
Date Sampled: 08/23/07 09:30
Percent Solids: 93
Initial Volume: 1
Final Volume: 1
Extraction Method: [CALC]

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-04
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Xylenes (Total)	ND	mg/kg dry	0.0139	400	0	08/24/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*0.3 %*	*+*	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.1 %*	*+*	*70-130*
Surrogate: Dibromofluoromethane	*0.6 %*	*+*	*70-130*
Surrogate: Toluene-d8	*0.04 %*	*+*	*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-05
Date Sampled: 08/23/07 09:35
Percent Solids: 90
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-05
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	MA - S2GW1 Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,1,1-Trichloroethane	ND	mg/kg dry	0.0048	30	1	08/24/07
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0048	0.005	1	08/24/07
1,1,2-Trichloroethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,1-Dichloroethane	ND	mg/kg dry	0.0048	0.4	1	08/24/07
1,1-Dichloroethene	ND	mg/kg dry	0.0048	3	1	08/24/07
1,1-Dichloropropene	ND	mg/kg dry	0.0048		1	08/24/07
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0048		1	08/24/07
1,2,3-Trichloropropane	ND	mg/kg dry	0.0048		1	08/24/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0048	2	1	08/24/07
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0048		1	08/24/07
1,2-Dibromoethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.0048	9	1	08/24/07
1,2-Dichloroethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,2-Dichloropropane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.0048	1	1	08/24/07
1,3-Dichloropropane	ND	mg/kg dry	0.0048		1	08/24/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.0048	0.7	1	08/24/07
1,4-Dioxane - Screen	ND	mg/kg dry	0.239		1	08/24/07
2,2-Dichloropropane	ND	mg/kg dry	0.0048		1	08/24/07
2-Butanone	ND	mg/kg dry	0.0479	0.3	1	08/24/07
2-Chlorotoluene	ND	mg/kg dry	0.0048		1	08/24/07
2-Hexanone	ND	mg/kg dry	0.0479		1	08/24/07
4-Chlorotoluene	ND	mg/kg dry	0.0048		1	08/24/07
4-Isopropyltoluene	ND	mg/kg dry	0.0048	100	1	08/24/07
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0479	0.4	1	08/24/07
Acetone	ND	mg/kg dry	0.0479	3	1	08/24/07
Benzene	ND	mg/kg dry	0.0048	2	1	08/24/07
Bromobenzene	ND	mg/kg dry	0.0048		1	08/24/07
Bromochloromethane	ND	mg/kg dry	0.0048		1	08/24/07
Bromodichloromethane	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Bromoform	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Bromomethane	ND	mg/kg dry	0.0096	10	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-05
Date Sampled: 08/23/07 09:35
Percent Solids: 90
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-05
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Carbon Disulfide	ND	mg/kg dry	0.0048		1	08/24/07
Carbon Tetrachloride	ND	mg/kg dry	0.0048	10	1	08/24/07
Chlorobenzene	ND	mg/kg dry	0.0048	1	1	08/24/07
Chloroethane	ND	mg/kg dry	0.0096		1	08/24/07
Chloroform	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Chloromethane	ND	mg/kg dry	0.0096		1	08/24/07
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0048	0.3	1	08/24/07
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0048	0.01	1	08/24/07
Dibromochloromethane	ND	mg/kg dry	0.0048	0.005	1	08/24/07
Dibromomethane	ND	mg/kg dry	0.0048		1	08/24/07
Dichlorodifluoromethane	ND	mg/kg dry	0.0096		1	08/24/07
Diethyl Ether	ND	mg/kg dry	0.0048		1	08/24/07
Di-isopropyl ether	ND	mg/kg dry	0.0048		1	08/24/07
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0048		1	08/24/07
Ethylbenzene	ND	mg/kg dry	0.0048	80	1	08/24/07
Hexachlorobutadiene	ND	mg/kg dry	0.0048	90	1	08/24/07
Isopropylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0048	0.1	1	08/24/07
Methylene Chloride	ND	mg/kg dry	0.0239	0.1	1	08/24/07
Naphthalene	ND	mg/kg dry	0.0048	4	1	08/24/07
n-Butylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
n-Propylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
sec-Butylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
Styrene	ND	mg/kg dry	0.0048	3	1	08/24/07
tert-Butylbenzene	ND	mg/kg dry	0.0048	100	1	08/24/07
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0048		1	08/24/07
Tetrachloroethene	ND	mg/kg dry	0.0048	1	1	08/24/07
Tetrahydrofuran	ND	mg/kg dry	0.0048		1	08/24/07
Toluene	ND	mg/kg dry	0.0048	30	1	08/24/07
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0048	1	1	08/24/07
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0048	0.01	1	08/24/07
Trichloroethene	ND	mg/kg dry	0.0048	0.3	1	08/24/07
Trichlorofluoromethane	ND	mg/kg dry	0.0048		1	08/24/07
Vinyl Chloride	ND	mg/kg dry	0.0096	0.9	1	08/24/07
Xylene O	ND	mg/kg dry	0.0048	400	1	08/24/07
Xylene P,M	ND	mg/kg dry	0.0096	400	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-05
Date Sampled: 08/23/07 09:35
Percent Solids: 90
Initial Volume: 1
Final Volume: 1
Extraction Method: [CALC]

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-05
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Xylenes (Total)	ND	mg/kg dry	0.0144	400	0	08/24/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*0.6 %*	+	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.2 %*	+	*70-130*
Surrogate: Dibromofluoromethane	*0.6 %*	+	*70-130*
Surrogate: Toluene-d8	*0.08 %*	+	*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-06
Date Sampled: 08/23/07 09:40
Percent Solids: 89
Initial Volume: 5.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-06
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	MA - S2GW1 Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0050	0.1	1	08/24/07
1,1,1-Trichloroethane	ND	mg/kg dry	0.0050	30	1	08/24/07
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0050	0.005	1	08/24/07
1,1,2-Trichloroethane	ND	mg/kg dry	0.0050	0.1	1	08/24/07
1,1-Dichloroethane	ND	mg/kg dry	0.0050	0.4	1	08/24/07
1,1-Dichloroethene	ND	mg/kg dry	0.0050	3	1	08/24/07
1,1-Dichloropropene	ND	mg/kg dry	0.0050		1	08/24/07
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0050		1	08/24/07
1,2,3-Trichloropropane	ND	mg/kg dry	0.0050		1	08/24/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0050	2	1	08/24/07
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0050	100	1	08/24/07
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0050		1	08/24/07
1,2-Dibromoethane	ND	mg/kg dry	0.0050	0.1	1	08/24/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.0050	9	1	08/24/07
1,2-Dichloroethane	ND	mg/kg dry	0.0050	0.1	1	08/24/07
1,2-Dichloropropane	ND	mg/kg dry	0.0050	0.1	1	08/24/07
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0050	100	1	08/24/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.0050	1	1	08/24/07
1,3-Dichloropropane	ND	mg/kg dry	0.0050		1	08/24/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.0050	0.7	1	08/24/07
1,4-Dioxane - Screen	ND	mg/kg dry	0.251		1	08/24/07
2,2-Dichloropropane	ND	mg/kg dry	0.0050		1	08/24/07
2-Butanone	ND	mg/kg dry	0.0502	0.3	1	08/24/07
2-Chlorotoluene	ND	mg/kg dry	0.0050		1	08/24/07
2-Hexanone	ND	mg/kg dry	0.0502		1	08/24/07
4-Chlorotoluene	ND	mg/kg dry	0.0050		1	08/24/07
4-Isopropyltoluene	ND	mg/kg dry	0.0050	100	1	08/24/07
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0502	0.4	1	08/24/07
Acetone	ND	mg/kg dry	0.0502	3	1	08/24/07
Benzene	ND	mg/kg dry	0.0050	2	1	08/24/07
Bromobenzene	ND	mg/kg dry	0.0050		1	08/24/07
Bromochloromethane	ND	mg/kg dry	0.0050		1	08/24/07
Bromodichloromethane	ND	mg/kg dry	0.0050	0.1	1	08/24/07
Bromoform	ND	mg/kg dry	0.0050	0.1	1	08/24/07
Bromomethane	ND	mg/kg dry	0.0100	10	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-06
Date Sampled: 08/23/07 09:40
Percent Solids: 89
Initial Volume: 5.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-06
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Carbon Disulfide	ND	mg/kg dry	0.0050		1	08/24/07
Carbon Tetrachloride	ND	mg/kg dry	0.0050	10	1	08/24/07
Chlorobenzene	ND	mg/kg dry	0.0050	1	1	08/24/07
Chloroethane	ND	mg/kg dry	0.0100		1	08/24/07
Chloroform	ND	mg/kg dry	0.0050	0.1	1	08/24/07
Chloromethane	ND	mg/kg dry	0.0100		1	08/24/07
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0050	0.3	1	08/24/07
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0050	0.01	1	08/24/07
Dibromochloromethane	ND	mg/kg dry	0.0050	0.005	1	08/24/07
Dibromomethane	ND	mg/kg dry	0.0050		1	08/24/07
Dichlorodifluoromethane	ND	mg/kg dry	0.0100		1	08/24/07
Diethyl Ether	ND	mg/kg dry	0.0050		1	08/24/07
Di-isopropyl ether	ND	mg/kg dry	0.0050		1	08/24/07
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0050		1	08/24/07
Ethylbenzene	ND	mg/kg dry	0.0050	80	1	08/24/07
Hexachlorobutadiene	ND	mg/kg dry	0.0050	90	1	08/24/07
Isopropylbenzene	ND	mg/kg dry	0.0050	100	1	08/24/07
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0050	0.1	1	08/24/07
Methylene Chloride	ND	mg/kg dry	0.0251	0.1	1	08/24/07
Naphthalene	ND	mg/kg dry	0.0050	4	1	08/24/07
n-Butylbenzene	ND	mg/kg dry	0.0050	100	1	08/24/07
n-Propylbenzene	ND	mg/kg dry	0.0050	100	1	08/24/07
sec-Butylbenzene	ND	mg/kg dry	0.0050	100	1	08/24/07
Styrene	ND	mg/kg dry	0.0050	3	1	08/24/07
tert-Butylbenzene	ND	mg/kg dry	0.0050	100	1	08/24/07
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0050		1	08/24/07
Tetrachloroethene	ND	mg/kg dry	0.0050	1	1	08/24/07
Tetrahydrofuran	ND	mg/kg dry	0.0050		1	08/24/07
Toluene	ND	mg/kg dry	0.0050	30	1	08/24/07
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0050	1	1	08/24/07
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0050	0.01	1	08/24/07
Trichloroethene	ND	mg/kg dry	0.0050	0.3	1	08/24/07
Trichlorofluoromethane	ND	mg/kg dry	0.0050		1	08/24/07
Vinyl Chloride	ND	mg/kg dry	0.0100	0.9	1	08/24/07
Xylene O	ND	mg/kg dry	0.0050	400	1	08/24/07
Xylene P,M	ND	mg/kg dry	0.0100	400	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-06
Date Sampled: 08/23/07 09:40
Percent Solids: 89
Initial Volume: 1
Final Volume: 1
Extraction Method: [CALC]

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-06
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Xylenes (Total)	ND	mg/kg dry	0.0150	400	0	08/24/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	%	+	*70-130*
Surrogate: 4-Bromofluorobenzene	%	+	*70-130*
Surrogate: Dibromofluoromethane	%	+	*70-130*
Surrogate: Toluene-d8	%	+	*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-07
Date Sampled: 08/23/07 00:00
Percent Solids: 96
Initial Volume: 5.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-07
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	MA - S2GW1 Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0047	0.1	1	08/24/07
1,1,1-Trichloroethane	ND	mg/kg dry	0.0047	30	1	08/24/07
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0047	0.005	1	08/24/07
1,1,2-Trichloroethane	ND	mg/kg dry	0.0047	0.1	1	08/24/07
1,1-Dichloroethane	ND	mg/kg dry	0.0047	0.4	1	08/24/07
1,1-Dichloroethene	ND	mg/kg dry	0.0047	3	1	08/24/07
1,1-Dichloropropene	ND	mg/kg dry	0.0047		1	08/24/07
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0047		1	08/24/07
1,2,3-Trichloropropane	ND	mg/kg dry	0.0047		1	08/24/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0047	2	1	08/24/07
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0047	100	1	08/24/07
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0047		1	08/24/07
1,2-Dibromoethane	ND	mg/kg dry	0.0047	0.1	1	08/24/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.0047	9	1	08/24/07
1,2-Dichloroethane	ND	mg/kg dry	0.0047	0.1	1	08/24/07
1,2-Dichloropropane	ND	mg/kg dry	0.0047	0.1	1	08/24/07
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0047	100	1	08/24/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.0047	1	1	08/24/07
1,3-Dichloropropane	ND	mg/kg dry	0.0047		1	08/24/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.0047	0.7	1	08/24/07
1,4-Dioxane - Screen	ND	mg/kg dry	0.237		1	08/24/07
2,2-Dichloropropane	ND	mg/kg dry	0.0047		1	08/24/07
2-Butanone	ND	mg/kg dry	0.0473	0.3	1	08/24/07
2-Chlorotoluene	ND	mg/kg dry	0.0047		1	08/24/07
2-Hexanone	ND	mg/kg dry	0.0473		1	08/24/07
4-Chlorotoluene	ND	mg/kg dry	0.0047		1	08/24/07
4-Isopropyltoluene	ND	mg/kg dry	0.0047	100	1	08/24/07
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0473	0.4	1	08/24/07
Acetone	ND	mg/kg dry	0.0473	3	1	08/24/07
Benzene	ND	mg/kg dry	0.0047	2	1	08/24/07
Bromobenzene	ND	mg/kg dry	0.0047		1	08/24/07
Bromochloromethane	ND	mg/kg dry	0.0047		1	08/24/07
Bromodichloromethane	ND	mg/kg dry	0.0047	0.1	1	08/24/07
Bromoform	ND	mg/kg dry	0.0047	0.1	1	08/24/07
Bromomethane	ND	mg/kg dry	0.0095	10	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-07
Date Sampled: 08/23/07 00:00
Percent Solids: 96
Initial Volume: 5.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-07
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Carbon Disulfide	ND	mg/kg dry	0.0047		1	08/24/07
Carbon Tetrachloride	ND	mg/kg dry	0.0047	10	1	08/24/07
Chlorobenzene	ND	mg/kg dry	0.0047	1	1	08/24/07
Chloroethane	ND	mg/kg dry	0.0095		1	08/24/07
Chloroform	ND	mg/kg dry	0.0047	0.1	1	08/24/07
Chloromethane	ND	mg/kg dry	0.0095		1	08/24/07
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0047	0.3	1	08/24/07
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0047	0.01	1	08/24/07
Dibromochloromethane	ND	mg/kg dry	0.0047	0.005	1	08/24/07
Dibromomethane	ND	mg/kg dry	0.0047		1	08/24/07
Dichlorodifluoromethane	ND	mg/kg dry	0.0095		1	08/24/07
Diethyl Ether	ND	mg/kg dry	0.0047		1	08/24/07
Di-isopropyl ether	ND	mg/kg dry	0.0047		1	08/24/07
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0047		1	08/24/07
Ethylbenzene	ND	mg/kg dry	0.0047	80	1	08/24/07
Hexachlorobutadiene	ND	mg/kg dry	0.0047	90	1	08/24/07
Isopropylbenzene	ND	mg/kg dry	0.0047	100	1	08/24/07
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0047	0.1	1	08/24/07
Methylene Chloride	ND	mg/kg dry	0.0237	0.1	1	08/24/07
Naphthalene	ND	mg/kg dry	0.0047	4	1	08/24/07
n-Butylbenzene	ND	mg/kg dry	0.0047	100	1	08/24/07
n-Propylbenzene	ND	mg/kg dry	0.0047	100	1	08/24/07
sec-Butylbenzene	ND	mg/kg dry	0.0047	100	1	08/24/07
Styrene	ND	mg/kg dry	0.0047	3	1	08/24/07
tert-Butylbenzene	ND	mg/kg dry	0.0047	100	1	08/24/07
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0047		1	08/24/07
Tetrachloroethene	ND	mg/kg dry	0.0047	1	1	08/24/07
Tetrahydrofuran	ND	mg/kg dry	0.0047		1	08/24/07
Toluene	ND	mg/kg dry	0.0047	30	1	08/24/07
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0047	1	1	08/24/07
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0047	0.01	1	08/24/07
Trichloroethene	ND	mg/kg dry	0.0047	0.3	1	08/24/07
Trichlorofluoromethane	ND	mg/kg dry	0.0047		1	08/24/07
Vinyl Chloride	ND	mg/kg dry	0.0095	0.9	1	08/24/07
Xylene O	ND	mg/kg dry	0.0047	400	1	08/24/07
Xylene P,M	ND	mg/kg dry	0.0095	400	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: L0712213-07
Date Sampled: 08/23/07 00:00
Percent Solids: 96
Initial Volume: 1
Final Volume: 1
Extraction Method: [CALC]

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-07
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Xylenes (Total)	ND	mg/kg dry	0.0142	400	0	08/24/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*%*	*+*	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.2 %*	*+*	*70-130*
Surrogate: Dibromofluoromethane	*0.6 %*	*+*	*70-130*
Surrogate: Toluene-d8	*0.04 %*	*+*	*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: Trip Blank L0712213-08
Date Sampled: 08/22/07 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-08
Sample Matrix: Solid
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	MA - S2GW1 Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	0.1	1	08/24/07
1,1,1-Trichloroethane	ND	mg/kg	0.005	30	1	08/24/07
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	0.005	1	08/24/07
1,1,2-Trichloroethane	ND	mg/kg	0.005	0.1	1	08/24/07
1,1-Dichloroethane	ND	mg/kg	0.005	0.4	1	08/24/07
1,1-Dichloroethene	ND	mg/kg	0.005	3	1	08/24/07
1,1-Dichloropropene	ND	mg/kg	0.005		1	08/24/07
1,2,3-Trichlorobenzene	ND	mg/kg	0.005		1	08/24/07
1,2,3-Trichloropropane	ND	mg/kg	0.005		1	08/24/07
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	2	1	08/24/07
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	100	1	08/24/07
1,2-Dibromo-3-Chloropropane	ND	mg/kg	0.005		1	08/24/07
1,2-Dibromoethane	ND	mg/kg	0.005	0.1	1	08/24/07
1,2-Dichlorobenzene	ND	mg/kg	0.005	9	1	08/24/07
1,2-Dichloroethane	ND	mg/kg	0.005	0.1	1	08/24/07
1,2-Dichloropropane	ND	mg/kg	0.005	0.1	1	08/24/07
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	100	1	08/24/07
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	1	08/24/07
1,3-Dichloropropane	ND	mg/kg	0.005		1	08/24/07
1,4-Dichlorobenzene	ND	mg/kg	0.005	0.7	1	08/24/07
1,4-Dioxane - Screen	ND	mg/kg	0.2		1	08/24/07
2,2-Dichloropropane	ND	mg/kg	0.005		1	08/24/07
2-Butanone	ND	mg/kg	0.05	0.3	1	08/24/07
2-Chlorotoluene	ND	mg/kg	0.005		1	08/24/07
2-Hexanone	ND	mg/kg	0.05		1	08/24/07
4-Chlorotoluene	ND	mg/kg	0.005		1	08/24/07
4-Isopropyltoluene	ND	mg/kg	0.005	100	1	08/24/07
4-Methyl-2-Pentanone	ND	mg/kg	0.05	0.4	1	08/24/07
Acetone	ND	mg/kg	0.05	3	1	08/24/07
Benzene	ND	mg/kg	0.005	2	1	08/24/07
Bromobenzene	ND	mg/kg	0.005		1	08/24/07
Bromochloromethane	ND	mg/kg	0.005		1	08/24/07
Bromodichloromethane	ND	mg/kg	0.005	0.1	1	08/24/07
Bromoform	ND	mg/kg	0.005	0.1	1	08/24/07
Bromomethane	ND	mg/kg	0.01	10	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: Trip Blank L0712213-08
Date Sampled: 08/22/07 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-08
Sample Matrix: Solid
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Carbon Disulfide	ND	mg/kg	0.005		1	08/24/07
Carbon Tetrachloride	ND	mg/kg	0.005	10	1	08/24/07
Chlorobenzene	ND	mg/kg	0.005	1	1	08/24/07
Chloroethane	ND	mg/kg	0.01		1	08/24/07
Chloroform	ND	mg/kg	0.005	0.1	1	08/24/07
Chloromethane	ND	mg/kg	0.01		1	08/24/07
cis-1,2-Dichloroethene	ND	mg/kg	0.005	0.3	1	08/24/07
cis-1,3-Dichloropropene	ND	mg/kg	0.005	0.01	1	08/24/07
Dibromochloromethane	ND	mg/kg	0.005	0.005	1	08/24/07
Dibromomethane	ND	mg/kg	0.005		1	08/24/07
Dichlorodifluoromethane	ND	mg/kg	0.01		1	08/24/07
Diethyl Ether	ND	mg/kg	0.005		1	08/24/07
Di-isopropyl ether	ND	mg/kg	0.005		1	08/24/07
Ethyl tertiary-butyl ether	ND	mg/kg	0.005		1	08/24/07
Ethylbenzene	ND	mg/kg	0.005	80	1	08/24/07
Hexachlorobutadiene	ND	mg/kg	0.005	90	1	08/24/07
Isopropylbenzene	ND	mg/kg	0.005	100	1	08/24/07
Methyl tert-Butyl Ether	ND	mg/kg	0.005	0.1	1	08/24/07
Methylene Chloride	ND	mg/kg	0.02	0.1	1	08/24/07
Naphthalene	ND	mg/kg	0.005	4	1	08/24/07
n-Butylbenzene	ND	mg/kg	0.005	100	1	08/24/07
n-Propylbenzene	ND	mg/kg	0.005	100	1	08/24/07
sec-Butylbenzene	ND	mg/kg	0.005	100	1	08/24/07
Styrene	ND	mg/kg	0.005	3	1	08/24/07
tert-Butylbenzene	ND	mg/kg	0.005	100	1	08/24/07
Tertiary-amyl methyl ether	ND	mg/kg	0.005		1	08/24/07
Tetrachloroethene	ND	mg/kg	0.005	1	1	08/24/07
Tetrahydrofuran	ND	mg/kg	0.005		1	08/24/07
Toluene	ND	mg/kg	0.005	30	1	08/24/07
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	1	08/24/07
trans-1,3-Dichloropropene	ND	mg/kg	0.005	0.01	1	08/24/07
Trichloroethene	ND	mg/kg	0.005	0.3	1	08/24/07
Trichlorofluoromethane	ND	mg/kg	0.005		1	08/24/07
Vinyl Chloride	ND	mg/kg	0.01	0.9	1	08/24/07
Xylene O	ND	mg/kg	0.005	400	1	08/24/07
Xylene P,M	ND	mg/kg	0.01	400	1	08/24/07

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling
Client Sample ID: Trip Blank L0712213-08
Date Sampled: 08/22/07 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0708357
ESS Laboratory Sample ID: 0708357-08
Sample Matrix: Solid
Analyst: RES

5035/8260B Volatile Organic Compounds / Low Level

Xylenes (Total)	ND	mg/kg	0.008	400	0	08/24/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*0.6 %*	*+*	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.4 %*	*+*	*70-130*
Surrogate: Dibromofluoromethane	*0.7 %*	*+*	*70-130*
Surrogate: Toluene-d8	*0.08 %*	*+*	*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling

ESS Laboratory Work Order: 0708357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BH72405 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane - Screen	ND	0.250	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling

ESS Laboratory Work Order: 0708357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BH72405 - 5035										
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.200*		ug/L	*25.0*		*0.8*	*70-130*			*+*
Surrogate: 4-Bromofluorobenzene	*0.100*		ug/L	*25.0*		*0.4*	*70-130*			*+*
Surrogate: Dibromofluoromethane	*0.220*		ug/L	*25.0*		*0.9*	*70-130*			*+*
Surrogate: Toluene-d8	*0.0300*		ug/L	*25.0*		*0.1*	*70-130*			*+*
LCS										
1,1,1,2-Tetrachloroethane	23.6		ug/L	25.0		94	70-130			
1,1,1-Trichloroethane	23.6		ug/L	25.0		94	70-130			
1,1,2,2-Tetrachloroethane	22.6		ug/L	25.0		90	70-130			
1,1,2-Trichloroethane	23.1		ug/L	25.0		92	70-130			
1,1-Dichloroethane	23.4		ug/L	25.0		94	70-130			
1,1-Dichloroethene	23.7		ug/L	25.0		95	70-130			
1,1-Dichloropropene	23.8		ug/L	25.0		95	70-130			
1,2,3-Trichlorobenzene	23.2		ug/L	25.0		93	70-130			
1,2,3-Trichloropropane	22.6		ug/L	25.0		90	70-130			
1,2,4-Trichlorobenzene	23.2		ug/L	25.0		93	70-130			
1,2,4-Trimethylbenzene	23.6		ug/L	25.0		94	70-130			
1,2-Dibromo-3-Chloropropane	22.8		ug/L	25.0		91	70-130			
1,2-Dibromoethane	23.3		ug/L	25.0		93	70-130			
1,2-Dichlorobenzene	22.8		ug/L	25.0		91	70-130			
1,2-Dichloroethane	22.5		ug/L	25.0		90	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling

ESS Laboratory Work Order: 0708357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BH72405 - 5035										
1,2-Dichloropropane	23.5		ug/L	25.0		94	70-130			
1,3,5-Trimethylbenzene	23.5		ug/L	25.0		94	70-130			
1,3-Dichlorobenzene	22.4		ug/L	25.0		90	70-130			
1,3-Dichloropropane	23.7		ug/L	25.0		95	70-130			
1,4-Dichlorobenzene	22.4		ug/L	25.0		90	70-130			
1,4-Dioxane - Screen	465		ug/L	500		93	70-130			
2,2-Dichloropropane	26.4		ug/L	25.0		106	70-130			
2-Butanone	113		ug/L	125		90	70-130			
2-Chlorotoluene	22.6		ug/L	25.0		90	70-130			
2-Hexanone	113		ug/L	125		90	70-130			
4-Chlorotoluene	22.8		ug/L	25.0		91	70-130			
4-Isopropyltoluene	22.8		ug/L	25.0		91	70-130			
4-Methyl-2-Pentanone	110		ug/L	125		88	70-130			
Acetone	122		ug/L	125		98	70-130			
Benzene	23.4		ug/L	25.0		94	70-130			
Bromobenzene	23.4		ug/L	25.0		94	70-130			
Bromochloromethane	24.8		ug/L	25.0		99	70-130			
Bromodichloromethane	23.1		ug/L	25.0		92	70-130			
Bromoform	23.6		ug/L	25.0		94	70-130			
Bromomethane	31.3		ug/L	25.0		125	70-130			
Carbon Disulfide	26.3		ug/L	25.0		105	70-130			
Carbon Tetrachloride	23.4		ug/L	25.0		94	70-130			
Chlorobenzene	23.0		ug/L	25.0		92	70-130			
Chloroethane	30.2		ug/L	25.0		121	70-130			
Chloroform	23.4		ug/L	25.0		94	70-130			
Chloromethane	25.1		ug/L	25.0		100	70-130			
cis-1,2-Dichloroethene	23.3		ug/L	25.0		93	70-130			
cis-1,3-Dichloropropene	22.8		ug/L	25.0		91	70-130			
Dibromochloromethane	22.8		ug/L	25.0		91	70-130			
Dibromomethane	22.9		ug/L	25.0		92	70-130			
Dichlorodifluoromethane	28.0		ug/L	25.0		112	70-130			
Diethyl Ether	23.8		ug/L	25.0		95	70-130			
Di-isopropyl ether	23.7		ug/L	25.0		95	70-130			
Ethyl tertiary-butyl ether	22.7		ug/L	25.0		91	70-130			
Ethylbenzene	23.8		ug/L	25.0		95	70-130			
Hexachlorobutadiene	23.7		ug/L	25.0		95	70-130			
Isopropylbenzene	21.3		ug/L	25.0		85	70-130			
Methyl tert-Butyl Ether	23.1		ug/L	25.0		92	70-130			
Methylene Chloride	25.9		ug/L	25.0		104	70-130			
Naphthalene	23.2		ug/L	25.0		93	70-130			
n-Butylbenzene	23.7		ug/L	25.0		95	70-130			
n-Propylbenzene	23.5		ug/L	25.0		94	70-130			
sec-Butylbenzene	23.0		ug/L	25.0		92	70-130			
Styrene	24.0		ug/L	25.0		96	70-130			
tert-Butylbenzene	23.0		ug/L	25.0		92	70-130			
Tertiary-amyl methyl ether	23.0		ug/L	25.0		92	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling

ESS Laboratory Work Order: 0708357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BH72405 - 5035										
Tetrachloroethene	24.5		ug/L	25.0		98	70-130			
Tetrahydrofuran	23.3		ug/L	25.0		93	70-130			
Toluene	23.2		ug/L	25.0		93	70-130			
trans-1,2-Dichloroethene	23.7		ug/L	25.0		95	70-130			
trans-1,3-Dichloropropene	21.3		ug/L	25.0		85	70-130			
Trichloroethene	23.4		ug/L	25.0		94	70-130			
Trichlorofluoromethane	21.2		ug/L	25.0		85	70-130			
Vinyl Chloride	25.1		ug/L	25.0		100	70-130			
Xylene O	23.4		ug/L	25.0		94	70-130			
Xylene P,M	46.8		ug/L	50.0		94	70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.3*		ug/L	*25.0*		*93*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.3*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*25.1*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*24.8*		ug/L	*25.0*		*99*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	23.9		ug/L	25.0		96	70-130	1	20	
1,1,1-Trichloroethane	23.5		ug/L	25.0		94	70-130	0.4	20	
1,1,2,2-Tetrachloroethane	23.7		ug/L	25.0		95	70-130	5	20	
1,1,2-Trichloroethane	23.6		ug/L	25.0		94	70-130	2	20	
1,1-Dichloroethane	23.4		ug/L	25.0		94	70-130	0	20	
1,1-Dichloroethene	23.5		ug/L	25.0		94	70-130	0.8	20	
1,1-Dichloropropene	23.6		ug/L	25.0		94	70-130	0.8	20	
1,2,3-Trichlorobenzene	23.0		ug/L	25.0		92	70-130	0.9	20	
1,2,3-Trichloropropane	23.1		ug/L	25.0		92	70-130	2	20	
1,2,4-Trichlorobenzene	22.9		ug/L	25.0		92	70-130	1	20	
1,2,4-Trimethylbenzene	23.7		ug/L	25.0		95	70-130	0.4	20	
1,2-Dibromo-3-Chloropropane	23.3		ug/L	25.0		93	70-130	2	20	
1,2-Dibromoethane	23.7		ug/L	25.0		95	70-130	2	20	
1,2-Dichlorobenzene	23.4		ug/L	25.0		94	70-130	3	20	
1,2-Dichloroethane	22.8		ug/L	25.0		91	70-130	1	20	
1,2-Dichloropropane	23.7		ug/L	25.0		95	70-130	0.8	20	
1,3,5-Trimethylbenzene	23.8		ug/L	25.0		95	70-130	1	20	
1,3-Dichlorobenzene	22.8		ug/L	25.0		91	70-130	2	20	
1,3-Dichloropropane	24.0		ug/L	25.0		96	70-130	1	20	
1,4-Dichlorobenzene	22.8		ug/L	25.0		91	70-130	2	20	
1,4-Dioxane - Screen	479		ug/L	500		96	70-130	3	20	
2,2-Dichloropropane	27.1		ug/L	25.0		108	70-130	3	20	
2-Butanone	115		ug/L	125		92	70-130	2	20	
2-Chlorotoluene	24.8		ug/L	25.0		99	70-130	9	20	
2-Hexanone	115		ug/L	125		92	70-130	2	20	
4-Chlorotoluene	23.1		ug/L	25.0		92	70-130	1	20	
4-Isopropyltoluene	22.9		ug/L	25.0		92	70-130	0.4	20	
4-Methyl-2-Pentanone	117		ug/L	125		94	70-130	6	20	
Acetone	117		ug/L	125		94	70-130	4	20	
Benzene	23.6		ug/L	25.0		94	70-130	0.9	20	
Bromobenzene	23.6		ug/L	25.0		94	70-130	0.9	20	

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling

ESS Laboratory Work Order: 0708357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BH72405 - 5035										
Bromochloromethane	25.2		ug/L	25.0		101	70-130	2	20	
Bromodichloromethane	23.3		ug/L	25.0		93	70-130	0.9	20	
Bromoform	24.1		ug/L	25.0		96	70-130	2	20	
Bromomethane	30.4		ug/L	25.0		122	70-130	3	20	
Carbon Disulfide	25.5		ug/L	25.0		102	70-130	3	20	
Carbon Tetrachloride	23.5		ug/L	25.0		94	70-130	0.4	20	
Chlorobenzene	23.2		ug/L	25.0		93	70-130	0.9	20	
Chloroethane	29.3		ug/L	25.0		117	70-130	3	20	
Chloroform	23.4		ug/L	25.0		94	70-130	0	20	
Chloromethane	24.8		ug/L	25.0		99	70-130	1	20	
cis-1,2-Dichloroethene	23.4		ug/L	25.0		94	70-130	0.4	20	
cis-1,3-Dichloropropene	23.1		ug/L	25.0		92	70-130	1	20	
Dibromochloromethane	23.1		ug/L	25.0		92	70-130	1	20	
Dibromomethane	23.6		ug/L	25.0		94	70-130	3	20	
Dichlorodifluoromethane	28.0		ug/L	25.0		112	70-130	0	20	
Diethyl Ether	24.1		ug/L	25.0		96	70-130	1	20	
Di-isopropyl ether	24.2		ug/L	25.0		97	70-130	2	20	
Ethyl tertiary-butyl ether	23.3		ug/L	25.0		93	70-130	3	20	
Ethylbenzene	23.9		ug/L	25.0		96	70-130	0.4	20	
Hexachlorobutadiene	23.8		ug/L	25.0		95	70-130	0.4	20	
Isopropylbenzene	21.7		ug/L	25.0		87	70-130	2	20	
Methyl tert-Butyl Ether	23.5		ug/L	25.0		94	70-130	2	20	
Methylene Chloride	25.9		ug/L	25.0		104	70-130	0	20	
Naphthalene	23.0		ug/L	25.0		92	70-130	0.9	20	
n-Butylbenzene	23.7		ug/L	25.0		95	70-130	0	20	
n-Propylbenzene	22.7		ug/L	25.0		91	70-130	3	20	
sec-Butylbenzene	23.3		ug/L	25.0		93	70-130	1	20	
Styrene	24.1		ug/L	25.0		96	70-130	0.4	20	
tert-Butylbenzene	23.7		ug/L	25.0		95	70-130	3	20	
Tertiary-amyl methyl ether	23.8		ug/L	25.0		95	70-130	3	20	
Tetrachloroethene	23.1		ug/L	25.0		92	70-130	6	20	
Tetrahydrofuran	24.6		ug/L	25.0		98	70-130	5	20	
Toluene	23.4		ug/L	25.0		94	70-130	0.9	20	
trans-1,2-Dichloroethene	23.9		ug/L	25.0		96	70-130	0.8	20	
trans-1,3-Dichloropropene	21.7		ug/L	25.0		87	70-130	2	20	
Trichloroethene	23.5		ug/L	25.0		94	70-130	0.4	20	
Trichlorofluoromethane	21.0		ug/L	25.0		84	70-130	0.9	20	
Vinyl Chloride	25.0		ug/L	25.0		100	70-130	0.4	20	
Xylene O	23.3		ug/L	25.0		93	70-130	0.4	20	
Xylene P,M	47.0		ug/L	50.0		94	70-130	0.4	20	
Surrogate: 1,2-Dichloroethane-d4	*23.7*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*24.8*		ug/L	*25.0*		*99*	*70-130*			
Surrogate: Toluene-d8	*24.6*		ug/L	*25.0*		*98*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling ESS Laboratory Work Order: 0708357

Notes and Definitions

U	Analyte included in the analysis, but not detected
IM	Internal Standard was outside of criteria due to matrix (UCM present).
7	Due to equipment malfunction, surrogates were not added to any of the low level VOA samples. Only 1 vial was received.
+	Outside QC Limits.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
mg/kg	Results reported as wet weight
TCLP	Toxicity Characteristic Leachate Procedure
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
TIC	A forward library search of the NBS Mass Spectral Library was performed on this sample using the McLafferty Probability Base Matching (PBM) Algorithm. An estimated concentration of non-TCL compounds tentatively identified is quantified by the internal standard method. The nearest internal standard free of interferences was used to quantify. A response factor of one was assumed. This search was inclusive of the ten largest peaks greater than ten percent of the nearest internal standard.
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
¶	The state of RI does not grant certification for this method for non-potables.

CERTIFICATE OF ANALYSIS

Client Name: Alpha Analytical
Client Project ID: Alpha Analytical Sampling

ESS Laboratory Work Order: 0708357

ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Navy Installation Restoration QA Program
Soil and Water

Rhode Island: A-179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NELAP accredited): 242405
Potable Water
Non Potable Water

New York (NELAP accredited): 11313
Potable Water
Non Potable Water
Solid and Hazardous Waste

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP accredited): RI002
Potable Water
Non Potable Water
Soil and Hazardous Waste

Maryland: 301
Potable Water

To: ESS Cranston

CHAIN OF CUSTODY PAGE 1 OF 1

ALPHA WOODS HOLE LABS

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:

ALPHA Job #: 0709357

Client Information

Client: Alpha Analytical
Address: 8 Walkup Dr
Westborough, MA
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location:
Project #:
Project Manager: P. Henriksen
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 8/27/07 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	Unlined Landfill Reuse 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: VOCs (High) 8260; VOCs (Low) 8260; Total Solids

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	VOCs (High) 8260	VOCs (Low) 8260	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
1		L0712213-01	8/23/07	0915	S		X	X	X		3
2		-02		0920							3
3		-03		0925							3
4		-04		0930							3
5		-05		0935							3
6		-06		0940							3
7		-07		2400							3
8		-08	8/22/07	1445							1
9	1008808	TRIP BLANK KD 8/20/07									
		Cooler temp 5.0°C									

Container Type	V	V	P
Preservative	MeOH	H2O	N/A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
D. Fraser	8/23/07 1410	Paul Gillett	8/23/07 14:20
Paul Gillett	8/23/07	K. DiMaio	8/24/07 11021

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)

ANALYTICAL REPORT

Lab Number:	L0712700
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	NA SOIL EXCAVATION
Project Number:	0051545
Report Date:	09/12/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712700
Report Date: 09/12/07

Alpha Sample ID	Client ID	Sample Location
L0712700-01	SP-J1-20070904-01	RAYTHEON WAYLAND
L0712700-02	SP-J2-20070904-01	RAYTHEON WAYLAND
L0712700-03	SP-J3-20070904-01	RAYTHEON WAYLAND
L0712700-04	SP-J4-20070904-01	RAYTHEON WAYLAND
L0712700-05	SP-J5-20070904-01	RAYTHEON WAYLAND
L0712700-06	SP-J6-20070904-01	RAYTHEON WAYLAND

Project Name:	NA SOIL EXCAVATION	**Lab Number:**	L0712700
Project Number:	0051545	**Report Date:**	09/12/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	NA SOIL EXCAVATION	**Lab Number:**	L0712700
Project Number:	0051545	**Report Date:**	09/12/07

Case Narrative

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.

MCP Related Narratives:

Report Submission

All MCP required questions were answered with affirmative responses, therefore, there are no relevant data issues to discuss.

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:

Title: Technical Director/Representative Date: 09/12/07

ORGANICS

VOLATILES

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712700

Project Number: 0051545 **Report Date:** 09/12/07

SAMPLE RESULTS

Lab ID:	L0712700-01	Date Collected:	09/04/07 11:00
Client ID:	SP-J1-20070904-01	Date Received:	09/04/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil		
Anaytical Method:	1,8260B		
Analytical Date:	09/11/07 13:19		
Analyst:	SE		
TCLP Extraction Date:	09/10/07 16:46		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
TCLP Volatile Organics					
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
Tetrachloroethene	ND		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
Benzene	ND		ug/l	5.0	10
Vinyl chloride	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
Trichloroethene	ND		ug/l	5.0	10
1,4-Dichlorobenzene	ND		ug/l	25	10
2-Butanone	ND		ug/l	50	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	99		70-130

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712700

Project Number: 0051545 **Report Date:** 09/12/07

SAMPLE RESULTS

Lab ID:	L0712700-02	Date Collected:	09/04/07 11:05
Client ID:	SP-J2-20070904-01	Date Received:	09/04/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil		
Anaytical Method:	1,8260B		
Analytical Date:	09/11/07 13:55		
Analyst:	SE		
TCLP Extraction Date:	09/10/07 16:46		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
TCLP Volatile Organics					
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
Tetrachloroethene	ND		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
Benzene	ND		ug/l	5.0	10
Vinyl chloride	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
Trichloroethene	ND		ug/l	5.0	10
1,4-Dichlorobenzene	ND		ug/l	25	10
2-Butanone	ND		ug/l	50	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	100		70-130

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712700

Project Number: 0051545 **Report Date:** 09/12/07

SAMPLE RESULTS

Lab ID:	L0712700-03	Date Collected:	09/04/07 11:10
Client ID:	SP-J3-20070904-01	Date Received:	09/04/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil		
Anaytical Method:	1,8260B		
Analytical Date:	09/11/07 14:31		
Analyst:	SE		
TCLP Extraction Date:	09/10/07 16:46		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
TCLP Volatile Organics					
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
Tetrachloroethene	ND		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
Benzene	ND		ug/l	5.0	10
Vinyl chloride	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
Trichloroethene	60		ug/l	5.0	10
1,4-Dichlorobenzene	ND		ug/l	25	10
2-Butanone	ND		ug/l	50	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	102		70-130

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712700

Project Number: 0051545 **Report Date:** 09/12/07

SAMPLE RESULTS

Lab ID:	L0712700-04	Date Collected:	09/04/07 11:15
Client ID:	SP-J4-20070904-01	Date Received:	09/04/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil		
Anaytical Method:	1,8260B		
Analytical Date:	09/11/07 15:06		
Analyst:	SE		
TCLP Extraction Date:	09/10/07 16:46		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
TCLP Volatile Organics					
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
Tetrachloroethene	ND		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
Benzene	ND		ug/l	5.0	10
Vinyl chloride	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
Trichloroethene	ND		ug/l	5.0	10
1,4-Dichlorobenzene	ND		ug/l	25	10
2-Butanone	ND		ug/l	50	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	102		70-130

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712700

Project Number: 0051545 **Report Date:** 09/12/07

SAMPLE RESULTS

Lab ID:	L0712700-05	Date Collected:	09/04/07 11:20
Client ID:	SP-J5-20070904-01	Date Received:	09/04/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil		
Anaytical Method:	1,8260B		
Analytical Date:	09/11/07 15:43		
Analyst:	SE		
TCLP Extraction Date:	09/10/07 16:46		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
TCLP Volatile Organics					
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
Tetrachloroethene	ND		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
Benzene	ND		ug/l	5.0	10
Vinyl chloride	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
Trichloroethene	ND		ug/l	5.0	10
1,4-Dichlorobenzene	ND		ug/l	25	10
2-Butanone	ND		ug/l	50	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	101		70-130

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712700

Project Number: 0051545 **Report Date:** 09/12/07

SAMPLE RESULTS

Lab ID:	L0712700-06	Date Collected:	09/04/07 11:25
Client ID:	SP-J6-20070904-01	Date Received:	09/04/07
Sample Location:	RAYTHEON WAYLAND	Field Prep:	Not Specified
Matrix:	Soil		
Anaytical Method:	1,8260B		
Analytical Date:	09/11/07 16:18		
Analyst:	SE		
TCLP Extraction Date:	09/10/07 16:46		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
TCLP Volatile Organics					
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
Tetrachloroethene	ND		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
Benzene	ND		ug/l	5.0	10
Vinyl chloride	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
Trichloroethene	ND		ug/l	5.0	10
1,4-Dichlorobenzene	ND		ug/l	25	10
2-Butanone	ND		ug/l	50	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	98		70-130

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712700

Project Number: 0051545 **Report Date:** 09/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/11/07 12:43
Analyst: SE
TCLP Extraction Date:

Parameter	Result	Qualifier	Units	RDL
TCLP Volatile Organics for sample(s): 01-06 Batch: WG290025-10				
Chloroform	ND		ug/l	7.5
Carbon tetrachloride	ND		ug/l	5.0
Tetrachloroethene	ND		ug/l	5.0
Chlorobenzene	ND		ug/l	5.0
1,2-Dichloroethane	ND		ug/l	5.0
Benzene	ND		ug/l	5.0
Vinyl chloride	ND		ug/l	10
1,1-Dichloroethene	ND		ug/l	5.0
Trichloroethene	ND		ug/l	5.0
1,4-Dichlorobenzene	ND		ug/l	25
2-Butanone	ND		ug/l	50

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NA SOIL EXCAVATION
Project Number: 0051545
Lab Number: L0712700
Report Date: 09/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Volatile Organics Associated sample(s): 01-06 Batch: WG290025-9					
Chloroform	110	-	70-130	-	20
Carbon tetrachloride	107	-	70-130	-	20
Tetrachloroethene	114	-	70-130	-	20
Chlorobenzene	118	-	75-130	-	20
1,2-Dichloroethane	124	-	70-130	-	20
Benzene	114	-	76-127	-	20
Vinyl chloride	91	-	70-130	-	20
1,1-Dichloroethene	97	-	61-145	-	20
Trichloroethene	112	-	71-120	-	20
1,4-Dichlorobenzene	117	-	70-130	-	20
2-Butanone	127	-	70-130	-	20

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99				70-130
Toluene-d8	101				70-130
4-Bromofluorobenzene	96				70-130
Dibromofluoromethane	101				70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: NA SOIL EXCAVATION
Project Number: 0051545

Lab Number: L0712700
Report Date: 09/12/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
TCLP Volatile Organics Associated sample(s): 01-06 QC Batch ID: WG290025-1 WG290025-2 QC Sample: L0710794-06 Client ID: MS Sample									
Chloroform	ND	100	100	102	97	97	70-130	5	20
Carbon tetrachloride	ND	100	100	101	94	94	70-130	7	20
Tetrachloroethene	ND	100	93	93	89	89	70-130	4	20
Chlorobenzene	ND	100	99	99	95	96	75-130	3	20
1,2-Dichloroethane	ND	100	110	109	99	99	70-130	10	20
Benzene	ND	100	92	92	87	87	76-127	6	20
Vinyl chloride	ND	100	86	86	82	82	70-130	5	20
1,1-Dichloroethene	ND	100	100	102	91	91	61-145	11	20
Trichloroethene	ND	100	94	94	86	86	71-120	9	20
1,4-Dichlorobenzene	ND	100	97	97	100	101	70-130	4	20
2-Butanone	ND	100	120	124	110	112	70-130	10	20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	109		102		70-130
Toluene-d8	100		94		70-130

Project Name: NA SOIL EXCAVATION **Lab Number:** L0712700

Project Number: 0051545 **Report Date:** 09/12/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712700-01A	Vial Large unpreserved	A	N/A	2.4C	Y	Absent	TCLP-VOA
L0712700-02A	Vial Large unpreserved	A	N/A	2.4C	Y	Absent	TCLP-VOA
L0712700-03A	Vial Large unpreserved	A	N/A	2.4C	Y	Absent	TCLP-VOA
L0712700-04A	Vial Large unpreserved	A	N/A	2.4C	Y	Absent	TCLP-VOA
L0712700-05A	Vial Large unpreserved	A	N/A	2.4C	Y	Absent	TCLP-VOA
L0712700-06A	Vial Large unpreserved	A	N/A	2.4C	Y	Absent	TCLP-VOA

Project Name:	NA SOIL EXCAVATION	**Lab Number:**	L0712700
Project Number:	0051545	**Report Date:**	09/12/07

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:	NA SOIL EXCAVATION	**Lab Number:**	L0712700
Project Number:	0051545	**Report Date:**	09/12/07

REFERENCES

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

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.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA
MOUNT HOLLY LABS

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

09120709:38

Date Rec'd in Lab: 9/4/07

ALPHA Job #: L0712700

Client Information

Client: ERM-Boston
Address: 399 Boylston St. 6th Floor
Boston, MA 02116
Phone: 617 646 7800
Fax: 617 267 6447
Email: jason.flatteny@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NA Soil Excavation
Project Location: Raytheon-Wayland
Project #: 0051545
Project Manager: Jason Flatteny
ALPHA Quote #:

Turn-Around Time

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

Date Due: 9/11 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
MCP	S2/GW-1

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: TCLP VOA; PCBs, TURSOCs, Pesticides, Herbicides

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	TCLP VOA	PCBs, TURSOCs, Pesticides, Herbicides	Sample Specific Comments	TOTAL # BOTTLES
12700.1	SP-J1-20070904-01	09/04/07	1100	S	BM	1			1
2	SP-J2-20070904-01		1105			1			1
3	SP-J3-20070904-01		1110			1			1
4	SP-J4-20070904-01		1115			1			1
5	SP-J5-20070904-01		1120			1			1
6	SP-J6-20070904-01		1125			1			1
	SP-I1-20070904-01	↓	1135	↓	↓		1		2

Container Type	A	A	A						
Preservative	A	A	A						

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
14:15 9/4/07	9/4/07 1505	9/4/07 1415	9/4/07 14:05

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. 10-OCT-05)