E

APPENDIX E

LABORATORY REPORTS

Groundwater Analytical, Inc.
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GROUNDWATER ANALYTICAL

e-mail

To:	Todd Megrath	**From:**	e-mail reporting GWA
	Environmental Health &	**Pages:**	29
e-mail:	tmegrath@eheinc.com	**Date:**	08/18/2010 15:55:22
Re:	135433	**CC:**	

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply**

- **Comments:**

Final Project Report for 17228, Lab ID 135433, Received 08-11-10

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Confidential

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Stree
Buzzards Bay, MA 0253

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August 18, 2010

Mr. Todd Megrath
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

LABORATORY REPORT

Project: **17228**
Lab ID: **135433**
Received: **08-11-10**

Dear Todd:

Enclosed are the analytical results for the above referenced project. The project was processed for Priority turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/elm
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**17228**	Delivery:	**Hand**	Temperature:	**n/a**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**135433**	Lab Receipt:	**08-11-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-1	113725		Solid	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-2	113726		Solid	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-3	113727		Solid	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-4	113728		Solid	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-5	113729		Solid	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-6	113730		Solid	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-7	113731		Solid	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-8	113732		Solid	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-9	113733		Solid	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-10	113734		Soil	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-11	113735		Soil	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**17228**	Delivery:	**Hand**	Temperature:	**n/a**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**135433**	Lab Receipt:	**08-11-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-12	113736		Soil	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-13	113737		Soil	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
135433-14	113738		Soil	8/10/10 0:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project:	**17228**	Lab ID:	**135433**
Client:	**Environmental Health & Engineering, Inc.**	Received:	**08-11-10 18:05**

Mass DEP Analytical Protocol Certification Form

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8082: 135433-1,-2,-3,-4,-5,-6,-7,-8,-9,-10,-11,-12,-13,-14

Sample Matrices: Groundwater/Surface ( ) Soil/Sediment (X) Drinking Water ( ) Air ( ) Other (X)

CAM Protocol (check all that apply below):

8260 VOC CAM II A ( )	7470/7471 Hg CAM III B ( )	Mass DEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	Mass DEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	Mass DEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9012 Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

An affirmative response to questions A through F are required for "Presumptive Certainty" status.

A.	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratoratory, and prepared/analyzed within method holding times?	Yes
B.	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes
C.	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes
D.	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes
E.	VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	n/a
F.	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes

Responses to questions G, H and I below are required for "Presumptive Certainty" status.

G.	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	No

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H.	Were all QC performance standards specified in the CAM protocol(s) achieved?	Yes
I.	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes

All negative responses must be addressed in an attached laboratory 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:		Position:	Operations Manager
Printed Name:	Eric H. Jensen	Date:	08-18-10

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113725**	Matrix:	**Solid**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-1**	QC Batch ID:	**PB-3546-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**1.4 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**n/a**
Analyzed:	**08-14-10 23:36**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	850
11104-28-2	Aroclor 1221	BRL		ug/Kg	850
11141-16-5	Aroclor 1232	BRL		ug/Kg	850
53469-21-9	Aroclor 1242	BRL		ug/Kg	850
12672-29-6	Aroclor 1248	BRL		ug/Kg	850
11097-69-1	Aroclor 1254	**890**	2C (780)*	ug/Kg	850
11096-82-5	Aroclor 1260	BRL		ug/Kg	850
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	850
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	850

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	140	53	**37 %**	30 - 150 %
Column	Decachlorobiphenyl	140	59	**42 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	140	55	**39 %**	30 - 150 %
Column	Decachlorobiphenyl	140	56	**40 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on an as received basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113726**	Matrix:	**Solid**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-2**	QC Batch ID:	**PB-3546-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**3.7 g**
Extracted:	**08-12-10 17:00**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**n/a**
Analyzed:	**08-16-10 12:28**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	320
11104-28-2	Aroclor 1221	BRL		ug/Kg	320
11141-16-5	Aroclor 1232	BRL		ug/Kg	320
53469-21-9	Aroclor 1242	BRL		ug/Kg	320
12672-29-6	Aroclor 1248	**1,500**	1C (1300)*	ug/Kg	320
11097-69-1	Aroclor 1254	BRL		ug/Kg	320
11096-82-5	Aroclor 1260	BRL		ug/Kg	320
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	320
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	320

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	54	24	**44 %**	30 - 150 %
Column	Decachlorobiphenyl	54	52	**97 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	54	20	**37 %**	30 - 150 %
Column	Decachlorobiphenyl	54	35	**65 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on an as received basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113727**	Matrix:	**Solid**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-3**	QC Batch ID:	**PB-3546-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**9.6 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**n/a**
Analyzed:	**08-14-10 20:51**	Dilution Factor:	**10**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	1,300
11104-28-2	Aroclor 1221	BRL		ug/Kg	1,300
11141-16-5	Aroclor 1232	BRL		ug/Kg	1,300
53469-21-9	Aroclor 1242	BRL		ug/Kg	1,300
12672-29-6	Aroclor 1248	BRL		ug/Kg	1,300
11097-69-1	Aroclor 1254	**2,600**	2C (2400)*	ug/Kg	1,300
11096-82-5	Aroclor 1260	BRL		ug/Kg	1,300
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	1,300
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	1,300

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	21	11	**54 %**	30 - 150 %
Column	Decachlorobiphenyl	21	12	**57 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	21	8	**40 %**	30 - 150 %
Column	Decachlorobiphenyl	21	12	**60 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on an as received basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113728**	Matrix:	**Solid**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-4**	QC Batch ID:	**PB-3546-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**0.46 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**n/a**
Analyzed:	**08-14-10 21:14**	Dilution Factor:	**10**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	26,000
11104-28-2	Aroclor 1221	BRL		ug/Kg	26,000
11141-16-5	Aroclor 1232	BRL		ug/Kg	26,000
53469-21-9	Aroclor 1242	BRL		ug/Kg	26,000
12672-29-6	Aroclor 1248	BRL		ug/Kg	26,000
11097-69-1	Aroclor 1254	**150,000**	2C (120000)*	ug/Kg	26,000
11096-82-5	Aroclor 1260	BRL		ug/Kg	26,000
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	26,000
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	26,000

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	430	270	**62 %**	30 - 150 %
	Decachlorobiphenyl	430	260	**61 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	430	260	**61 %**	30 - 150 %
	Decachlorobiphenyl	430	260	**60 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on an as received basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113729**	Matrix:	**Solid**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-5**	QC Batch ID:	**PB-3546-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**25 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**n/a**
Analyzed:	**08-14-10 23:59**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	49
11104-28-2	Aroclor 1221	BRL		ug/Kg	49
11141-16-5	Aroclor 1232	BRL		ug/Kg	49
53469-21-9	Aroclor 1242	BRL		ug/Kg	49
12672-29-6	Aroclor 1248	**530**	2C (460)*	ug/Kg	49
11097-69-1	Aroclor 1254	BRL		ug/Kg	49
11096-82-5	Aroclor 1260	BRL		ug/Kg	49
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	49
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	49

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**73 %**	30 - 150 %
Column	Decachlorobiphenyl	8	10	**126 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**88 %**	30 - 150 %
Column	Decachlorobiphenyl	8	9	**114 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on an as received basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113730**	Matrix:	**Solid**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-6**	QC Batch ID:	**PB-3546-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**24 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**n/a**
Analyzed:	**08-15-10 00:22**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	50
11104-28-2	Aroclor 1221	BRL		ug/Kg	50
11141-16-5	Aroclor 1232	BRL		ug/Kg	50
53469-21-9	Aroclor 1242	BRL		ug/Kg	50
12672-29-6	Aroclor 1248	**80**	2C (80)*	ug/Kg	50
11097-69-1	Aroclor 1254	BRL		ug/Kg	50
11096-82-5	Aroclor 1260	BRL		ug/Kg	50
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	50
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	50

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**67 %**	30 - 150 %
	Decachlorobiphenyl	8	8	**100 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	7	**80 %**	30 - 150 %
	Decachlorobiphenyl	8	8	**91 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on an as received basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113731**	Matrix:	**Solid**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-7**	QC Batch ID:	**PB-3546-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**23 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**n/a**
Analyzed:	**08-14-10 21:38**	Dilution Factor:	**10**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	510
11104-28-2	Aroclor 1221	BRL		ug/Kg	510
11141-16-5	Aroclor 1232	BRL		ug/Kg	510
53469-21-9	Aroclor 1242	BRL		ug/Kg	510
12672-29-6	Aroclor 1248	**4,000**	p 2C (2000)*	ug/Kg	510
11097-69-1	Aroclor 1254	BRL		ug/Kg	510
11096-82-5	Aroclor 1260	BRL		ug/Kg	510
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	510
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	510

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	9	5	**56 %**	30 - 150 %
Column	Decachlorobiphenyl	9	11	**127 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	9	7	**81 %**	30 - 150 %
Column	Decachlorobiphenyl	9	10	**120 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on an as received basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

p Greater than 40% difference between the detected concentrations on the two GC columns.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113732**	Matrix:	**Solid**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-8**	QC Batch ID:	**PB-3546-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**13 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**n/a**
Analyzed:	**08-15-10 00:46**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	93
11104-28-2	Aroclor 1221	BRL		ug/Kg	93
11141-16-5	Aroclor 1232	BRL		ug/Kg	93
53469-21-9	Aroclor 1242	BRL		ug/Kg	93
12672-29-6	Aroclor 1248	**130**	2C (110)*	ug/Kg	93
11097-69-1	Aroclor 1254	BRL		ug/Kg	93
11096-82-5	Aroclor 1260	BRL		ug/Kg	93
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	93
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	93

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	15	10	**61** %	30 - 150 %
	Decachlorobiphenyl	15	16	**102** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	15	11	**73** %	30 - 150 %
	Decachlorobiphenyl	15	15	**94** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on an as received basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113733**	Matrix:	**Solid**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-9**	QC Batch ID:	**PB-3546-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**19 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**n/a**
Analyzed:	**08-15-10 01:09**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	65
11104-28-2	Aroclor 1221	BRL		ug/Kg	65
11141-16-5	Aroclor 1232	BRL		ug/Kg	65
53469-21-9	Aroclor 1242	BRL		ug/Kg	65
12672-29-6	Aroclor 1248	**200**	2C (170)*	ug/Kg	65
11097-69-1	Aroclor 1254	BRL		ug/Kg	65
11096-82-5	Aroclor 1260	BRL		ug/Kg	65
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	65
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	65

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	11	6	**56 %**	30 - 150 %
Column	Decachlorobiphenyl	11	10	**92 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	11	7	**66 %**	30 - 150 %
Column	Decachlorobiphenyl	11	10	**90 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on an as received basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113734**	Matrix:	**Soil**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-10**	QC Batch ID:	**PB-3547-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**30 g**
Extracted:	**08-12-10 17:00**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**97**
Analyzed:	**08-14-10 01:25**	Dilution Factor:	**100**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	4,100
11104-28-2	Aroclor 1221	BRL		ug/Kg	4,100
11141-16-5	Aroclor 1232	BRL		ug/Kg	4,100
53469-21-9	Aroclor 1242	BRL		ug/Kg	4,100
12672-29-6	Aroclor 1248	BRL		ug/Kg	4,100
11097-69-1	Aroclor 1254	**7,400**	2C (6300)*	ug/Kg	4,100
11096-82-5	Aroclor 1260	BRL		ug/Kg	4,100
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	4,100
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	4,100

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	n/a	d	30 - 150 %
Column	Decachlorobiphenyl	7	n/a	d	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	n/a	d	30 - 150 %
Column	Decachlorobiphenyl	7	n/a	d	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113735**	Matrix:	**Soil**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-11**	QC Batch ID:	**PB-3547-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**30 g**
Extracted:	**08-12-10 17:00**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**99**
Analyzed:	**08-16-10 12:52**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**120**	1C (100)*	ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**69 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**99 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**75 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**64 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113736**	Matrix:	**Soil**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-12**	QC Batch ID:	**PB-3547-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**31 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**99**
Analyzed:	**08-15-10 01:33**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	**140**	1C (130)*	ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	3	**41 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**68 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	3	**46 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**61 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113737**	Matrix:	**Soil**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-13**	QC Batch ID:	**PB-3547-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**31 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**100**
Analyzed:	**08-15-10 02:20**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**130**	2C (110)*	ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**70 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**80 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**71 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**83 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* **Confirmatory column quantification.**

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**113738**	Matrix:	**Soil**
Project:	**17228**	Container:	**Plastic Bag**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**135433-14**	QC Batch ID:	**PB-3547-X**
Sampled:	**08-10-10 00:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**08-11-10 18:05**	Sample Weight:	**30 g**
Extracted:	**08-12-10 10:30**	Final Volume:	**1 mL**
Cleaned Up:	**08-13-10 15:30**	Percent Solids:	**100**
Analyzed:	**08-15-10 02:44**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**130**	2C (120)*	ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**67 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**87 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**69 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**88 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**17228**	Lab ID:	**135433**
Client:	**Environmental Health & Engineering, Inc.**	Received:	**08-11-10 18:05**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. Project 135433 was processed for 5 business day turnaround time, with a due date of 8-18-10, per Todd Megrath, 8-12-10.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8082 Non-conformance: Sample 135433-10. Sample did not have measureable surrogate recoveries due to required sample dilution.
2. EPA 8082 Note: Samples 135433-3, -4, -7 and -10. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration. Elevated reporting limits are above the recommended CAM reporting limits for the target analytes.
3. Samples 135433-1 through -14 were not received with sample collection times listed on the Chain of Custody. Samples were reported with a sampling collection time of 00:00 by the laboratory.
4. EPA 8082 Nore: Sample 135433-1. Sample had elevated reporting limits above the recommended CAM reporting limits for the target analytes due to limited sample material.

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 11 AUG 10

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: GROUNDWATER

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228

The cost of this analysis will be covered by EH&E Purchase Order # 17228

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER: Time/Date/Vol.
113725	BULK	EPA 8082 FOR PCBs	8/10/10
113726			
113727			
113728			
113729			
113730			
113731			
113732			
113733			
113734	SOIL	EPA 8082 SOXHLET EXTRACTION	
113735			
113736			
113737			
113738			

Special Instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☐ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient tmegrath@eheinc.com, mfragala@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: [signature] of Environmental Health & Engineering, Inc. Date: 8/11/10

Received by: JOE Clery of (company name) GWA Date: 8/11/10 1111

Relinquished by: JOE Clery of (company name) GWA Date: 8/11/10 1805

Received by: [signature] of (company name) GWA Date: 8/11/10 1800

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data

Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA 8082	Instrument ID:	GC-11 Agilent 6890	Instrument ID:	GC-11 Agilent 6890
QC Batch ID:	PB-3546-X	Extracted:	08-12-10 17:00	Extracted:	08-12-10 17:00
Matrix:	Soil	Cleaned Up:	08-13-10 15:30	Cleaned Up:	08-13-10 15:30
Units:	ug/Kg	Analyzed:	08-13-10 19:09	Analyzed:	08-13-10 19:32
		Analyst:	CRL	Analyst:	CRL

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	73	73	44%	44%	170	76	78	46%	47%	4 %	6 %	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	140	140	82%	84%	170	130	140	80%	82%	2 %	2 %	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-m-xylene	6.7	4.2	4.2	64%	63%	6.7	3.8	3.9	58%	58%		30 - 150 %
Decachlorobiphenyl	6.7	6.6	6.6	100%	100%	6.7	6.3	6.4	95%	96%		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-11 Agilent 6890**
QC Batch ID:	**PB-3546-X**	Extracted:	**08-12-10 17:00**
Matrix:	**Soil**	Cleaned Up:	**08-13-10 15:30**
		Analyzed:	**08-13-10 18:45**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	4.2	**63** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.5	**98** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	4.0	**61** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.6	**99** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA 8082	Instrument ID:	GC-11 Agilent 6890	Instrument ID:	GC-11 Agilent 6890
QC Batch ID:	PB-3547-X	Extracted:	08-12-10 17:00	Extracted:	08-12-10 17:00
Matrix:	Soil	Cleaned Up:	08-13-10 15:30	Cleaned Up:	08-13-10 15:30
Units:	ug/Kg	Analyzed:	08-13-10 17:58	Analyzed:	08-13-10 18:22
		Analyst:	CRL	Analyst:	CRL

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	140	140	85%	84%	170	150	140	88%	87%	3 %	4 %	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	150	150	88%	89%	170	150	150	91%	91%	3 %	2 %	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m*-xylene	6.7	4.7	4.4	70%	65%	6.7	4.8	4.6	72%	69%		30 - 150 %
Decachlorobiphenyl	6.7	6.6	6.9	100%	104%	6.7	7.0	6.9	105%	104%		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-11 Agilent 6890**
QC Batch ID:	**PB-3547-X**	Extracted:	**08-12-10 17:00**
Matrix:	**Soil**	Cleaned Up:	**08-13-10 15:30**
		Analyzed:	**08-13-10 17:34**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	4.8	**72** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.5	**98** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	4.5	**67** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.5	**98** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/Out_State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt_list_aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B

Non-Potable Water (Wastewater)

Analyte	Method
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Fluoride	EPA 300.0
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

GROUNDWATER ANALYTICAL

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228 Main Street
Buzzards Bay, MA 02532

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FAX (508) 759-4475
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June 30, 2011

Ms. Cindy Campisano
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

LABORATORY REPORT

Project: **EH&E/17228**
Lab ID: **142678**
Received: **06-15-11**

Dear Cindy:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Jonathan R. Sanford
President

JRS/ker

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-1	124581		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028711	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-2	124582		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028710	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-3	124583 MS		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028712	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-4	124583 MSD		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019480	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-5	124584		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028713	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-6	124585		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028720	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-7	124586 MS		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028719	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-8	124586 MSD		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019496	120 mL Amber Glass	n/a	n/a	NaOH	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-9	124587		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028715	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-10	124588		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028709	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-11	124589 MS		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028708	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-12	124589 MSD		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019495	120 mL Amber Glas	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-13	124590		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019494	120 mL Amber Glas	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-14	124591		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028723	120 mL Amber Glas	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-15	124592 MS		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028714	120 mL Amber Glas	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-16	124592 MSD		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019497	120 mL Amber Glas	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-17	124593		Soil	6/13/2011 8:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028718	120 mL Amber Glas	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-18	124594		Soil	6/13/2011 8:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028717	120 mL Amber Glas	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-19	124595		Soil	6/13/2011 8:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028619	120 mL Amber Glas	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-20	124596		Soil	6/13/2011 8:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028611	120 mL Amber Glas	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-21	124597		Soil	6/13/2011 8:50	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028721	120 mL Amber Glas	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-22	124598		Soil	6/13/2011 8:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028722	120 mL Amber Glas	Proline	BX39300	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-23	124599		Soil	6/13/2011 8:57	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028707	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-24	124600		Soil	6/13/2011 8:59	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028612	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-25	124601		Soil	6/13/2011 9:06	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028700	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-26	124602		Soil	6/13/2011 9:08	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028705	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-27	124603		Soil	6/13/2011 9:22	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028706	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-28	124604		Soil	6/13/2011 9:24	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028704	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-29	124605		Soil	6/13/2011 9:49	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028615	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-30	124606		Soil	6/13/2011 9:58	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028613	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-31	124607		Soil	6/13/2011 10:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028614	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-32	124608		Soil	6/13/2011 10:03	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028703	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-33	124609		Soil	6/13/2011 10:06	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028618	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-34	124610		Soil	6/13/2011 10:08	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028702	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-35	124611		Soil	6/13/2011 10:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028616	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-36	124612		Soil	6/13/2011 10:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028617	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-37	124613 MS		Soil	6/13/2011 10:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028623	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-38	124613 MSD		Soil	6/13/2011 10:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019498	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-39	124614		Soil	6/13/2011 10:24	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028624	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-40	124615		Soil	6/13/2011 10:24	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028622	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-41	124616 MS		Soil	6/13/2011 10:28	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028625	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-42	124616 MSD		Soil	6/13/2011 10:28	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019511	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-43	124617		Soil	6/13/2011 10:28	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028621	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-44	124618		Soil	6/13/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028627	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-45	124619 MS		Soil	6/13/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028626	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-46	124619 MSD		Soil	6/13/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019510	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-47	124620		Soil	6/13/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028620	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-48	124621		Soil	6/13/2011 10:48	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028610	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-49	124624		Soil	6/13/2011 10:57	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028606	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-50	124627		Soil	6/13/2011 11:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028608	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-51	124628		Soil	6/13/2011 11:26	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028607	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-52	124631		Soil	6/13/2011 11:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028686	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-53	124634		Soil	6/13/2011 11:34	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028694	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-54	124637		Soil	6/13/2011 11:37	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028690	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-55	124640		Soil	6/13/2011 11:43	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028685	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-56	124643		Soil	6/14/2011 10:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028654	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-57	124644		Soil	6/14/2011 10:20	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028655	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-58	124645		Soil	6/14/2011 10:35	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028674	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-59	124646		Soil	6/14/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028699	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-60	124647		Soil	6/14/2011 10:50	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028692	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-61	124648		Soil	6/14/2011 11:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028677	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-62	124649		Soil	6/14/2011 11:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028681	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-63	124650		Soil	6/14/2011 11:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028678	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-64	124651		Soil	6/14/2011 11:20	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028680	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-65	124652		Soil	6/14/2011 11:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028676	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-66	124653		Soil	6/14/2011 11:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028672	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-67	124654		Soil	6/14/2011 11:57	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028671	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-68	124655		Soil	6/14/2011 12:15	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028673	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-69	124346		Soil	6/14/2011 12:15	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028670	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-70	124347		Soil	6/14/2011 12:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028664	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-71	124348		Soil	6/14/2011 12:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028663	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-72	124349		Soil	6/14/2011 12:33	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028665	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-73	124350		Soil	6/14/2011 13:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028662	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-74	124351		Soil	6/14/2011 13:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028657	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-75	124352		Soil	6/14/2011 13:15	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028656	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-76	124353		Soil	6/14/2011 13:15	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028696	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-77	124354		Soil	6/14/2011 13:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028679	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-78	124355		Soil	6/14/2011 13:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028691	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-79	124356		Soil	6/14/2011 13:40	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028669	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-80	124357		Soil	6/14/2011 13:40	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028666	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-81	124358		Soil	6/14/2011 13:50	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028661	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-82	124359		Soil	6/14/2011 13:50	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028658	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-83	124360		Soil	6/14/2011 14:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028653	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-84	124361		Soil	6/14/2011 14:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028675	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-85	124362		Soil	6/14/2011 14:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028634	120 mL Amber Glass	Proline	BX39294	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-86	124363		Soil	6/14/2011 14:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028639	120 mL Amber Glass	Proline	BX39294	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-87	124364		Soil	6/14/2011 14:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028635	120 mL Amber Glass	Proline	BX39294	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-88	124365		Soil	6/14/2011 14:35	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028642	120 mL Amber Glass	Proline	BX39294	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-89	124366		Soil	6/14/2011 14:52	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028667	120 mL Amber Glas	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-90	124367		Soil	6/14/2011 14:57	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028660	120 mL Amber Glas	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-91	124368		Soil	6/14/2011 15:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028659	120 mL Amber Glas	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-92	124369		Soil	6/14/2011 15:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028652	120 mL Amber Glas	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-93	124370		Aqueous	6/14/2011 14:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033012	1 L Amber Glass	Proline	BX39211	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-94	124371		Aqueous	6/14/2011 14:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033011	1 L Amber Glass	Proline	BX39211	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124581**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-01**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 07:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**82**
Analyzed:	**06-21-11 11:21**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**300**	2C (290)*	ug/Kg	47
11096-82-5	Aroclor 1260	**230**	2C (170)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	4	**53 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**63 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	4	**53 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**60 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124582**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-02**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 07:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**82**
Analyzed:	**06-21-11 11:54**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**500**	1C (470)*	ug/Kg	47
11096-82-5	Aroclor 1260	**360**	2C (280)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**79 %**	30 - 150 %
	Decachlorobiphenyl	8	8	**97 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**79 %**	30 - 150 %
	Decachlorobiphenyl	8	7	**91 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124581**	Laboratory ID:	142678-01	142678-03	142678-04
Project:	**EH&E/17228**	Sampled:	06-13-11 07:55	06-13-11 07:55	06-13-11 07:55
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-16-11 14:15	06-16-11 14:15	06-16-11 14:15
Container:	**120 mL Amber Glass**	Cleaned Up:	06-20-11 21:00	06-20-11 21:00	06-20-11 21:00
Preservation:	**Cool**	Analyzed:	06-21-11 11:21	06-21-11 12:18	06-21-11 12:18
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3757-X	PB-3757-X	PB-3757-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 689(	GC-11 Agilent 6890
		Sample Weight:	31g	30g	31g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	82	82	82
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	200	190	210	**95 %**	**104 %**	200	220	240	**111 %**	**120 %**	**14 %**	**13 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	230	200	400	480	**111 %**	**121 %**	200	450	540	**136 %**	**155 %** s	**11 %**	**13 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**53%**	8	6	6	**70%**	**69%**	8	6	6	**71%**	**71%**		30 - 150 %
Decachlorobiphenyl	**63%**	8	7	6	**81%**	**80%**	8	9	9	**117%**	**109%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

s Result outside recommended limits due to analyte concentration native to the sample.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124584**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-05**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 07:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**89**
Analyzed:	**06-22-11 03:00**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	**300**	2C (240)*	ug/Kg	45
11097-69-1	Aroclor 1254	**170**	2C (140)*	ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**80 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**75 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**84 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**75 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124585**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-06**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 07:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**88**
Analyzed:	**06-21-11 13:05**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	**230**	1C (210)*	ug/Kg	44
11097-69-1	Aroclor 1254	**250**	1C (190)*	ug/Kg	44
11096-82-5	Aroclor 1260	BRL		ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**84 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**75 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**95 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**72 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124584**	Laboratory ID:	142678-05	142678-07	142678-08
Project:	**EH&E/17228**	Sampled:	06-13-11 07:55	06-13-11 07:55	06-13-11 07:55
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-16-11 17:30	06-16-11 17:30	06-16-11 17:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-21-11 23:00	06-21-11 23:00	06-21-11 23:00
Preservation:	**Cool**	Analyzed:	06-22-11 03:00	06-22-11 03:23	06-22-11 03:47
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3758-X	PB-3758-X	PB-3758-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	30g	30g	31g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	89	89	89
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	190	340	370	**182 % m**	**201 % m**	180	360	370	**199 % m**	**202 % m**	**8 %**	**1 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	BRL	190	230	280	**125 %**	**150 % m**	180	260	300	**140 %**	**163 % m**	**10 %**	**7 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**80%**	7	6	6	**82%**	**81%**	7	6	6	**85%**	**83%**		30 - 150 %
Decachlorobiphenyl	**75%**	7	7	8	**100%**	**107%**	7	7	9	**98%**	**120%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Result outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124587**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-09**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-13-11 08:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**87**
Analyzed:	**06-24-11 18:57**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**170**	1C (130)*	ug/Kg	45
11096-82-5	Aroclor 1260	**110**	2C (69)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	7	**92 %**	30 - 150 %
Column	Decachlorobiphenyl	8	7	**97 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**96 %**	30 - 150 %
Column	Decachlorobiphenyl	8	8	**104 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124588**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-10**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:10**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**88**
Analyzed:	**06-21-11 13:29**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**210**	1C (180)*	ug/Kg	45
11096-82-5	Aroclor 1260	**130**	2C (94)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**93 %**	30 - 150 %
Column	Decachlorobiphenyl	7	8	**110 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**90 %**	30 - 150 %
Column	Decachlorobiphenyl	7	8	**107 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124587**	Laboratory ID:	142678-09	142678-11	142678-12
Project:	**EH&E/17228**	Sampled:	06-13-11 08:10	06-13-11 08:10	06-13-11 08:10
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-21-11 13:30	06-21-11 13:30	06-21-11 13:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-24-11 15:00	06-24-11 15:00	06-24-11 15:00
Preservation:	**Cool**	Analyzed:	06-24-11 18:57	06-24-11 19:21	06-24-11 19:45
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3760-X	PB-3760-X	PB-3760-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	31g	30g	31g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	87	87	87
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	190	240	200	**125 %**	**105 %**	190	210	220	**109 %**	**114 %**	**12 %**	**9 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	110	190	260	290	**101 %**	**93 %**	190	260	320	**100 %**	**109 %**	**1 %**	**11 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-m-xylene	**80%**	8	6	7	**77%**	**91%**	8	6	7	**81%**	**85%**		30 - 150 %
Decachlorobiphenyl	**75%**	8	7	7	**90%**	**94%**	8	7	8	**96%**	**106%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124590**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-13**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-13-11 08:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**86**
Analyzed:	**06-27-11 13:07**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	BRL		ug/Kg	46
11097-69-1	Aroclor 1254	**97**	1C (63)*	ug/Kg	46
11096-82-5	Aroclor 1260	**47**	2C (34)*	ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	7	**84 %**	30 - 150 %
Column	Decachlorobiphenyl	8	7	**94 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	6	**83 %**	30 - 150 %
Column	Decachlorobiphenyl	8	7	**96 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124591**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-14**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:10**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**88**
Analyzed:	**06-21-11 13:52**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**80**	1C (75)*	ug/Kg	44
11096-82-5	Aroclor 1260	**58**	2C (34)*	ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**77 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**78 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**74 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**83 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**1245890**	Laboratory ID:	142678-13	142678-15	142678-16
Project:	**EH&E/17228**	Sampled:	06-13-11 08:10	06-13-11 08:10	06-13-11 08:10
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-22-11 03:00	06-22-11 03:00	06-22-11 03:00
Container:	**120 mL Amber Glass**	Cleaned Up:	06-25-11 18:00	06-25-11 18:00	06-25-11 18:00
Preservation:	**Cool**	Analyzed:	06-27-11 13:07	06-27-11 13:30	06-27-11 13:54
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3761-X	PB-3761-X	PB-3761-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	30g	30g	30g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	86	86	86
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	190	200	190	**105 %**	**101 %**	190	200	190	**110 %**	**100 %**	**2 %**	**3 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	47	190	210	250	**96 %**	**107 %**	190	220	240	**99 %**	**106 %**	**1 %**	**3 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-m-xylene	**84%**	8	6	6	**78%**	**79%**	7	6	6	**82%**	**82%**		30 - 150 %
Decachlorobiphenyl	**94%**	8	7	7	**92%**	**94%**	7	7	7	**98%**	**97%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124593**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-17**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:30**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**91**
Analyzed:	**06-21-11 15:31**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**260**	2C (250)*	ug/Kg	43
11096-82-5	Aroclor 1260	**180**	2C (100)*	ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**89 %**	30 - 150 %
Column	Decachlorobiphenyl	7	8	**113 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**89 %**	30 - 150 %
Column	Decachlorobiphenyl	7	9	**119 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124594**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-18**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:30**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**85**
Analyzed:	**06-21-11 15:55**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	BRL		ug/Kg	46
11097-69-1	Aroclor 1254	**85**	1C (77)*	ug/Kg	46
11096-82-5	Aroclor 1260	**63**	2C (46)*	ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**72 %**	30 - 150 %
	Decachlorobiphenyl	8	6	**81 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	5	**70 %**	30 - 150 %
	Decachlorobiphenyl	8	6	**82 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124595**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-19**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**93**
Analyzed:	**06-21-11 16:18**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**610**	e 2C (580)*	ug/Kg	42
11096-82-5	Aroclor 1260	**380**	e 2C (210)*	ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**54** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**68** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	4	**55** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**70** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124595**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-19RA1**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**93**
Analyzed:	**06-21-11 21:49**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	BRL		ug/Kg	210
11097-69-1	Aroclor 1254	**640**	2C (640)*	ug/Kg	210
11096-82-5	Aroclor 1260	**440**	2C (240)*	ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**53 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	4	**57 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**89 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124596**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-20**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**94**
Analyzed:	**06-21-11 16:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**160**	1C (140)*	ug/Kg	42
11096-82-5	Aroclor 1260	**97**	2C (48)*	ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**75 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**84 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**77 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**92 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124597**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-21**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:50**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**93**
Analyzed:	**06-21-11 17:05**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	**420**	e 1C (340)*	ug/Kg	43
11097-69-1	Aroclor 1254	**150**	2C (120)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**87 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**90 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**78 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

e Indicates concentration exceeded calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124597**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-21RA1**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:50**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**93**
Analyzed:	**06-22-11 23:59**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**510**	1C (380)*	ug/Kg	210
11097-69-1	Aroclor 1254	BRL		ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**93 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**89 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**98 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**88 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124598**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-22**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**89**
Analyzed:	**06-21-11 17:29**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**73**	1C (45)*	ug/Kg	44
11096-82-5	Aroclor 1260	BRL		ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**81 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**70 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**83 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**70 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124599**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-23**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:57**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**92**
Analyzed:	**06-21-11 17:53**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**160**	1C (130)*	ug/Kg	43
11096-82-5	Aroclor 1260	**79**	2C (47)*	ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**80 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**89 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**79 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**95 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124600**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-24**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:59**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**91**
Analyzed:	**06-21-11 18:16**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**100**	1C (92)*	ug/Kg	43
11096-82-5	Aroclor 1260	**76**	2C (45)*	ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**91 %**	30 - 150 %
	Decachlorobiphenyl	7	7	**91 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**88 %**	30 - 150 %
	Decachlorobiphenyl	7	7	**99 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124601**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-25**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:06**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**89**
Analyzed:	**06-21-11 18:40**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**350**	2C (340)*	ug/Kg	45
11096-82-5	Aroclor 1260	**300**	2C (250)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**90 %**	30 - 150 %
Column	Decachlorobiphenyl	7	8	**102 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**86 %**	30 - 150 %
Column	Decachlorobiphenyl	7	8	**103 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124602**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-26**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:08**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**90**
Analyzed:	**06-21-11 19:04**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**470**	1C (430)*	ug/Kg	45
11096-82-5	Aroclor 1260	**320**	2C (240)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**88** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**86** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**97** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124603**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-27**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:22**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**94**
Analyzed:	**06-21-11 20:38**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**310**	2C (300)*	ug/Kg	42
11096-82-5	Aroclor 1260	**180**	2C (120)*	ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**76 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**90 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	5	**74 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**87 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124604**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-28**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:24**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**88**
Analyzed:	**06-21-11 21:02**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**250**	2C (250)*	ug/Kg	44
11096-82-5	Aroclor 1260	**170**	2C (100)*	ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**73** %	30 - 150 %
	Decachlorobiphenyl	7	6	**78** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	5	**73** %	30 - 150 %
	Decachlorobiphenyl	7	6	**87** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124605**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-29**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:49**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**80**
Analyzed:	**06-21-11 21:25**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	49
11104-28-2	Aroclor 1221	BRL		ug/Kg	49
11141-16-5	Aroclor 1232	BRL		ug/Kg	49
53469-21-9	Aroclor 1242	BRL		ug/Kg	49
12672-29-6	Aroclor 1248	BRL		ug/Kg	49
11097-69-1	Aroclor 1254	**2,500**	e 1C (2500)*	ug/Kg	49
11096-82-5	Aroclor 1260	**1,800**	e 2C (1200)*	ug/Kg	49
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	49
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	49

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	5	**56 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**57 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	5	**56 %**	30 - 150 %
	Decachlorobiphenyl	8	6	**72 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.
- e Indicates concentration exceeded calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124605**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-29RA1**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:49**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**80**
Analyzed:	**06-23-11 00:23**	Dilution Factor:	**10**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	490
11104-28-2	Aroclor 1221	BRL		ug/Kg	490
11141-16-5	Aroclor 1232	BRL		ug/Kg	490
53469-21-9	Aroclor 1242	BRL		ug/Kg	490
12672-29-6	Aroclor 1248	BRL		ug/Kg	490
11097-69-1	Aroclor 1254	**3,200**	2C (2600)*	ug/Kg	490
11096-82-5	Aroclor 1260	**1,500**	2C (1200)*	ug/Kg	490
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	490
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	490

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	5	**61 %**	30 - 150 %
	Decachlorobiphenyl	8	6	**78 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	5	**59 %**	30 - 150 %
	Decachlorobiphenyl	8	6	**76 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124606**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-30**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 09:58**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**86**
Analyzed:	**06-22-11 04:10**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**610**	e 2C (530)*	ug/Kg	47
11096-82-5	Aroclor 1260	**270**	2C (220)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**70 %**	30 - 150 %
Column	Decachlorobiphenyl	8	5	**69 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**69 %**	30 - 150 %
Column	Decachlorobiphenyl	8	7	**85 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124606**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-30RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 09:58**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**86**
Analyzed:	**06-23-11 00:46**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	230
11104-28-2	Aroclor 1221	BRL		ug/Kg	230
11141-16-5	Aroclor 1232	BRL		ug/Kg	230
53469-21-9	Aroclor 1242	BRL		ug/Kg	230
12672-29-6	Aroclor 1248	BRL		ug/Kg	230
11097-69-1	Aroclor 1254	**670**	2C (530)*	ug/Kg	230
11096-82-5	Aroclor 1260	BRL		ug/Kg	230
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	230
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	230

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	75 %	30 - 150 %
	Decachlorobiphenyl	8	5	63 %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	79 %	30 - 150 %
	Decachlorobiphenyl	8	5	65 %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124607**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-31**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**86**
Analyzed:	**06-22-11 04:34**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	**380**	1C (220)*	ug/Kg	46
11097-69-1	Aroclor 1254	**350**	1C (310)*	ug/Kg	46
11096-82-5	Aroclor 1260	BRL		ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**72 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**63 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**74 %**	30 - 150 %
	Decachlorobiphenyl	8	6	**82 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124608**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-32**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:03**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-22-11 04:57**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	**390**	1C (310)*	ug/Kg	43
11097-69-1	Aroclor 1254	**460**	e 1C (390)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**79 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**76 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**83 %**	30 - 150 %
	Decachlorobiphenyl	7	7	**93 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124608**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-32RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:03**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-23-11 01:34**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**630**	1C (330)*	ug/Kg	210
11097-69-1	Aroclor 1254	**440**	2C (420)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**83** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**85** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**89** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124609**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-33**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:06**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-22-11 05:21**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**180**	1C (130)*	ug/Kg	42
11097-69-1	Aroclor 1254	**240**	1C (200)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**63** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**69** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**64** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**84** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124610**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-34**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:08**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**93**
Analyzed:	**06-22-11 06:55**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**660**	e 1C (480)*	ug/Kg	42
11097-69-1	Aroclor 1254	**510**	e 2C (500)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**74 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**74 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**78 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124610**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-34RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:08**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**93**
Analyzed:	**06-23-11 01:57**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**700**	1C (530)*	ug/Kg	210
11097-69-1	Aroclor 1254	**590**	2C (520)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**75 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**78 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**77 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**83 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124611**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-35**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 00:51**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**900**	e 2C (730)*	ug/Kg	42
11097-69-1	Aroclor 1254	**470**	e 1C (380)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**100 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**105 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**105 %**	30 - 150 %
Column	Decachlorobiphenyl	7	8	**108 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124611**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-35RA1**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 11:15**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**930**	2C (730)*	ug/Kg	210
11097-69-1	Aroclor 1254	**380**	2C (360)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**95 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**100 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**104 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**106 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124612**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-36**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 01:15**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	**900**	e 2C (740)*	ug/Kg	41
11097-69-1	Aroclor 1254	**640**	e 1C (390)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**108** %	30 - 150 %
	Decachlorobiphenyl	7	7	**107** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	8	**114** %	30 - 150 %
	Decachlorobiphenyl	7	7	**107** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124612**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-36RA1**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 11:39**	Dilution Factor:	**2**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	83
11104-28-2	Aroclor 1221	BRL		ug/Kg	83
11141-16-5	Aroclor 1232	BRL		ug/Kg	83
53469-21-9	Aroclor 1242	BRL		ug/Kg	83
12672-29-6	Aroclor 1248	**800**	2C (750)*	ug/Kg	83
11097-69-1	Aroclor 1254	**610**	1C (390)*	ug/Kg	83
11096-82-5	Aroclor 1260	BRL		ug/Kg	83
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	83
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	83

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**107 %**	30 - 150 %
	Decachlorobiphenyl	7	8	**109 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	8	**114 %**	30 - 150 %
	Decachlorobiphenyl	7	8	**111 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124611**	Laboratory ID:	142678-35	142678-37	142678-38
Project:	**EH&E/17228**	Sampled:	06-13-11 10:23	06-13-11 10:23	06-13-11 10:23
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-23-11 20:30	06-23-11 20:30	06-23-11 20:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-25-11 20:00	06-25-11 20:00	06-25-11 20:00
Preservation:	**Cool**	Analyzed:	06-28-11 11:15	06-28-11 12:03	06-28-11 12:27
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3762-X	PB-3762-X	PB-3762-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	30g	30g	30g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	94	94	94
		Dilution Factor:	5	5	5

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	170	550	570	**318 %** m	**329 %** m	180	500	520	**286 %** m	**294 %** m	**10 %**	**10 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	BRL	170	310	410	**177 %** m	**233 %** m	180	280	380	**159 %** m	**216 %** m	**10 %**	**7 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**95%**	7	7	8	**106%**	**113%**	7	7	7	**100%**	**104%**		30 - 150 %
Decachlorobiphenyl	**100%**	7	7	8	**104%**	**114%**	7	7	7	**95%**	**101%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124614**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-39**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:24**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**95**
Analyzed:	**06-28-11 03:38**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**1,300**	e 2C (850)*	ug/Kg	42
11097-69-1	Aroclor 1254	**640**	e 1C (460)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**103 %**	30 - 150 %
	Decachlorobiphenyl	7	7	**105 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	8	**110 %**	30 - 150 %
	Decachlorobiphenyl	7	7	**107 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124614**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-39RA1**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:24**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**95**
Analyzed:	**06-28-11 12:51**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**1,200**	2C (770)*	ug/Kg	210
11097-69-1	Aroclor 1254	**620**	1C (460)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**102** %	30 - 150 %
	Decachlorobiphenyl	7	7	**101** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	8	**109** %	30 - 150 %
	Decachlorobiphenyl	7	7	**107** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124615**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-40**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:24**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**96**
Analyzed:	**06-22-11 07:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	**670**	e 2C (430)*	ug/Kg	41
11097-69-1	Aroclor 1254	**460**	2C (430)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**87 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**76 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**91 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**81 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124615**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-40RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:24**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**96**
Analyzed:	**06-23-11 02:21**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**620**	2C (580)*	ug/Kg	210
11097-69-1	Aroclor 1254	**520**	2C (460)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**90** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**85** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**96** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**96** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124614**	Laboratory ID:	142678-39	142678-41	142678-42
Project:	**EH&E/17228**	Sampled:	06-13-11 10:24	06-13-11 10:24	06-13-11 10:24
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-23-11 20:30	06-23-11 20:30	06-23-11 20:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-25-11 20:00	06-25-11 20:00	06-25-11 20:00
Preservation:	**Cool**	Analyzed:	06-28-11 12:51	06-28-11 14:02	06-28-11 14:26
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3762-X	PB-3762-X	PB-3762-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	30g	30g	30g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	95	95	95
		Dilution Factor:	5	5	5

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	170	540	520	**310 %** m	**300 %** m	170	520	500	**301 %** m	**288 %** m	**3 %**	**4 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	BRL	170	300	410	**176 %** m	**240 %** m	170	300	420	**173 %** m	**242 %** m	**2 %**	**1 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**102%**	7	7	7	**103%**	**104%**	7	7	7	**100%**	**104%**		30 - 150 %
Decachlorobiphenyl	**101%**	7	7	7	**98%**	**102%**	7	7	7	**98%**	**101%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124617**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-43**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:28**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**97**
Analyzed:	**06-28-11 04:49**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	**430**	1C (420)*	ug/Kg	41
11097-69-1	Aroclor 1254	**110**	1C (98)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**96** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**101** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**103** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**105** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124618**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-44**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-22-11 08:06**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**420**	1C (370)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**85 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**69 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**90 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**79 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124617**	Laboratory ID:	142678-43	142678-45	142678-46
Project:	**EH&E/17228**	Sampled:	06-13-11 10:28	06-13-11 10:28	06-13-11 10:28
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-23-11 20:30	06-23-11 20:30	06-23-11 20:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-25-11 20:00	06-25-11 20:00	06-25-11 20:00
Preservation:	**Cool**	Analyzed:	06-28-11 04:49	06-28-11 14:50	06-28-11 15:14
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3762-X	PB-3762-X	PB-3762-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	31g	31g	31g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	97	97	95
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	170	650	770	**381 % m**	**447 % m**	170	590	660	**348 % m**	**389 % m**	**10 %**	**14 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	BRL	170	370	420	**217 % m**	**245 % m**	170	340	360	**200 % m**	**212 % m**	**9 %**	**15 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-m-xylene	**96%**	7	9	9	**129%**	**130%**	7	7	7	**107%**	**108%**		30 - 150 %
Decachlorobiphenyl	**101%**	7	8	8	**120%**	**124%**	7	7	8	**106%**	**111%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124620**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-47**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-22-11 08:30**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**450**	1C (330)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**79 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**64 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**81 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**66 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124621**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-48**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:48**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**95**
Analyzed:	**06-22-11 08:53**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**330**	1C (310)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**78 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**64 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**83 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**69 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124624**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-49**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:57**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**92**
Analyzed:	**06-22-11 09:17**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	**120**	1C (110)*	ug/Kg	43
11097-69-1	Aroclor 1254	**210**	1C (210)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**87 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**69 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**94 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**82 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124627**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-50**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**92**
Analyzed:	**06-22-11 09:40**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**290**	1C (250)*	ug/Kg	43
11096-82-5	Aroclor 1260	**170**	2C (95)*	ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**74** %	30 - 150 %
	Decachlorobiphenyl	7	6	**86** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	5	**76** %	30 - 150 %
	Decachlorobiphenyl	7	7	**103** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124628**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-51**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:26**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**87**
Analyzed:	**06-22-11 10:04**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**160**	2C (110)*	ug/Kg	45
11096-82-5	Aroclor 1260	**99**	2C (58)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**80 %**	30 - 150 %
	Decachlorobiphenyl	8	7	**91 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**80 %**	30 - 150 %
	Decachlorobiphenyl	8	8	**111 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124631**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-52**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:30**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**87**
Analyzed:	**06-22-11 10:28**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**120**	2C (110)*	ug/Kg	45
11096-82-5	Aroclor 1260	**79**	2C (46)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**82** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	6	**81** %	30 - 150 %
Column	Decachlorobiphenyl	8	8	**112** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124634**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-53**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:34**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**92**
Analyzed:	**06-22-11 12:02**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**140**	2C (110)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	3	**41 %**	30 - 150 %
Column	Decachlorobiphenyl	7	3	**34 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	3	**42 %**	30 - 150 %
Column	Decachlorobiphenyl	7	3	**41 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124637**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-54**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:37**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**84**
Analyzed:	**06-22-11 12:26**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**510**	2C (450)*	ug/Kg	47
11096-82-5	Aroclor 1260	**360**	2C (240)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**70 %**	30 - 150 %
Column	Decachlorobiphenyl	8	6	**78 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**70 %**	30 - 150 %
Column	Decachlorobiphenyl	8	8	**101 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124640**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-55**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:43**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**95**
Analyzed:	**06-22-11 12:49**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**1,300**	e 2C (940)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**65 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**52 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**67 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**64 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124640**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-55RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:43**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**95**
Analyzed:	**06-23-11 02:44**	Dilution Factor:	**10**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	410
11104-28-2	Aroclor 1221	BRL		ug/Kg	410
11141-16-5	Aroclor 1232	BRL		ug/Kg	410
53469-21-9	Aroclor 1242	BRL		ug/Kg	410
12672-29-6	Aroclor 1248	BRL		ug/Kg	410
11097-69-1	Aroclor 1254	**1,500**	2C (1300)*	ug/Kg	410
11096-82-5	Aroclor 1260	BRL		ug/Kg	410
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	410
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	410

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**68** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**62** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**74** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**70** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124643**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-56**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**94**
Analyzed:	**06-24-11 20:09**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**110**	2C (66)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	3	**40 %**	30 - 150 %
Column	Decachlorobiphenyl	7	3	**47 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	3	**44 %**	30 - 150 %
Column	Decachlorobiphenyl	7	3	**48 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124644**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-57**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**93**
Analyzed:	**06-24-11 20:33**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**64**	2C (47)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**64 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**79 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**66 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**80 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124645**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-58**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:35**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**92**
Analyzed:	**06-24-11 20:56**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**340**	2C (220)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**80 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**88 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**84 %**	30 - 150 %
	Decachlorobiphenyl	7	7	**91 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124646**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-59**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:45**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**90**
Analyzed:	**06-24-11 21:20**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**100**	2C (72)*	ug/Kg	44
11096-82-5	Aroclor 1260	BRL		ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**67 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**84 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**69 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**93 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124647**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-60**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:50**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**84**
Analyzed:	**06-24-11 22:55**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**1,300**	e 2C (860)*	ug/Kg	47
11096-82-5	Aroclor 1260	BRL		ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	4	**55 %**	30 - 150 %
Column	Decachlorobiphenyl	8	5	**68 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**58 %**	30 - 150 %
Column	Decachlorobiphenyl	8	5	**68 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124647**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-60RA1**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:50**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**84**
Analyzed:	**06-28-11 08:23**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	240
11104-28-2	Aroclor 1221	BRL		ug/Kg	240
11141-16-5	Aroclor 1232	BRL		ug/Kg	240
53469-21-9	Aroclor 1242	BRL		ug/Kg	240
12672-29-6	Aroclor 1248	BRL		ug/Kg	240
11097-69-1	Aroclor 1254	**1,300**	2C (1100)*	ug/Kg	240
11096-82-5	Aroclor 1260	BRL		ug/Kg	240
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	240
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	240

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**61** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**70** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**66** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**70** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124648**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-61**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**87**
Analyzed:	**06-24-11 23:19**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	BRL		ug/Kg	46
11097-69-1	Aroclor 1254	**340**	2C (230)*	ug/Kg	46
11096-82-5	Aroclor 1260	BRL		ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**61** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**64** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**77** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124649**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-62**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**88**
Analyzed:	**06-24-11 23:43**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**300**	2C (210)*	ug/Kg	44
11096-82-5	Aroclor 1260	BRL		ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**71 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**78 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**74 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**82 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124650**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-63**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**91**
Analyzed:	**06-25-11 00:07**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	BRL		ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**66** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**83** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**69** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**86** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124651**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-64**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**81**
Analyzed:	**06-25-11 00:30**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	49
11104-28-2	Aroclor 1221	BRL		ug/Kg	49
11141-16-5	Aroclor 1232	BRL		ug/Kg	49
53469-21-9	Aroclor 1242	BRL		ug/Kg	49
12672-29-6	Aroclor 1248	BRL		ug/Kg	49
11097-69-1	Aroclor 1254	**1,100**	e 2C (990)*	ug/Kg	49
11096-82-5	Aroclor 1260	BRL		ug/Kg	49
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	49
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	49

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**69 %**	30 - 150 %
Column	Decachlorobiphenyl	8	7	**85 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	6	**71 %**	30 - 150 %
Column	Decachlorobiphenyl	8	7	**85 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124651**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-64RA1**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**81**
Analyzed:	**06-28-11 08:47**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	240
11104-28-2	Aroclor 1221	BRL		ug/Kg	240
11141-16-5	Aroclor 1232	BRL		ug/Kg	240
53469-21-9	Aroclor 1242	BRL		ug/Kg	240
12672-29-6	Aroclor 1248	BRL		ug/Kg	240
11097-69-1	Aroclor 1254	**1,200**	2C (990)*	ug/Kg	240
11096-82-5	Aroclor 1260	BRL		ug/Kg	240
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	240
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	240

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	7	**80** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**83** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**88** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124652**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-65**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**82**
Analyzed:	**06-25-11 00:54**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	48
11104-28-2	Aroclor 1221	BRL		ug/Kg	48
11141-16-5	Aroclor 1232	BRL		ug/Kg	48
53469-21-9	Aroclor 1242	BRL		ug/Kg	48
12672-29-6	Aroclor 1248	BRL		ug/Kg	48
11097-69-1	Aroclor 1254	**490**	e 2C (360)*	ug/Kg	48
11096-82-5	Aroclor 1260	BRL		ug/Kg	48
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	48
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	48

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**81 %**	30 - 150 %
Column	Decachlorobiphenyl	8	8	**95 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**87 %**	30 - 150 %
Column	Decachlorobiphenyl	8	8	**99 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124652**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-65RA1**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**82**
Analyzed:	**06-28-11 09:11**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	240
11104-28-2	Aroclor 1221	BRL		ug/Kg	240
11141-16-5	Aroclor 1232	BRL		ug/Kg	240
53469-21-9	Aroclor 1242	BRL		ug/Kg	240
12672-29-6	Aroclor 1248	BRL		ug/Kg	240
11097-69-1	Aroclor 1254	**510**	2C (380)*	ug/Kg	240
11096-82-5	Aroclor 1260	BRL		ug/Kg	240
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	240
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	240

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	7	**87 %**	30 - 150 %
Column	Decachlorobiphenyl	8	8	**94 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**93 %**	30 - 150 %
Column	Decachlorobiphenyl	8	8	**99 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124653**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-66**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:45**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**82**
Analyzed:	**06-25-11 01:18**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	48
11104-28-2	Aroclor 1221	BRL		ug/Kg	48
11141-16-5	Aroclor 1232	BRL		ug/Kg	48
53469-21-9	Aroclor 1242	BRL		ug/Kg	48
12672-29-6	Aroclor 1248	BRL		ug/Kg	48
11097-69-1	Aroclor 1254	**240**	2C (190)*	ug/Kg	48
11096-82-5	Aroclor 1260	**300**	2C (190)*	ug/Kg	48
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	48
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	48

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**69** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**78** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	6	**71** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**82** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124654**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-67**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:57**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**84**
Analyzed:	**06-25-11 01:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**58**	2C (51)*	ug/Kg	47
11096-82-5	Aroclor 1260	**62**	2C (44)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**83 %**	30 - 150 %
	Decachlorobiphenyl	8	7	**84 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	7	**85 %**	30 - 150 %
	Decachlorobiphenyl	8	7	**90 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124655**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-68**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 12:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**88**
Analyzed:	**06-25-11 02:05**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**140**	2C (130)*	ug/Kg	45
11096-82-5	Aroclor 1260	**96**	2C (58)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	5	**65 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**69 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	5	**68 %**	30 - 150 %
	Decachlorobiphenyl	8	6	**76 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124346**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-69**	QC Batch ID:	**PB-3765-X**
Sampled:	**06-14-11 12:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-28-11 18:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-30-11 00:00**	Percent Solids:	**94**
Analyzed:	**06-30-11 03:39**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**110**	1C (82)*	ug/Kg	42
11097-69-1	Aroclor 1254	**160**	1C (130)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	3	**44 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**50 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	3	**49 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**53 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124347**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-70**	QC Batch ID:	**PB-3765-X**
Sampled:	**06-14-11 12:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-28-11 18:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-30-11 00:00**	Percent Solids:	**95**
Analyzed:	**06-30-11 04:03**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**370**	1C (260)*	ug/Kg	42
11097-69-1	Aroclor 1254	**120**	2C (100)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery		QC Limits
First	Tetrachloro-*m*-xylene	7	2	**26 %**	m	30 - 150 %
Column	Decachlorobiphenyl	7	2	**35 %**		30 - 150 %
Second	Tetrachloro-*m*-xylene	7	2	**29 %**	m	30 - 150 %
Column	Decachlorobiphenyl	7	3	**42 %**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.
- m Surrogate recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124348**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-71**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 12:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**90**
Analyzed:	**06-25-11 04:28**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**160**	2C (110)*	ug/Kg	44
11096-82-5	Aroclor 1260	**140**	p 2C (61)*	ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**79 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**82 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**87 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**87 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

p Greater than 40% difference between primary and confirmation columns.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124349**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-72**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 12:33**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**94**
Analyzed:	**06-25-11 04:52**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**460**	e 2C (390)*	ug/Kg	42
11097-69-1	Aroclor 1254	**280**	1C (220)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**74 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**93 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**84 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**101 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.
- e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124349**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-72RA1**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 12:33**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 09:35**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**450**	1C (450)*	ug/Kg	210
11097-69-1	Aroclor 1254	**310**	1C (230)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**88** %	30 - 150 %
	Decachlorobiphenyl	7	7	**94** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**94** %	30 - 150 %
	Decachlorobiphenyl	7	7	**96** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124350**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-73**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**82**
Analyzed:	**06-27-11 14:18**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	48
11104-28-2	Aroclor 1221	BRL		ug/Kg	48
11141-16-5	Aroclor 1232	BRL		ug/Kg	48
53469-21-9	Aroclor 1242	BRL		ug/Kg	48
12672-29-6	Aroclor 1248	BRL		ug/Kg	48
11097-69-1	Aroclor 1254	BRL		ug/Kg	48
11096-82-5	Aroclor 1260	BRL		ug/Kg	48
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	48
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	48

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	5	**62 %**	30 - 150 %
	Decachlorobiphenyl	8	6	**69 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	5	**61 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**68 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124351**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-74**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**92**
Analyzed:	**06-27-11 14:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	BRL		ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	8	**105 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**98 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**104 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**101 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124352**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-75**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**96**
Analyzed:	**06-27-11 15:06**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	BRL		ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**56 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**71 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	4	**56 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**71 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124353**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-76**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**96**
Analyzed:	**06-27-11 15:30**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	BRL		ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**80 %**	30 - 150 %
	Decachlorobiphenyl	7	7	**96 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**82 %**	30 - 150 %
	Decachlorobiphenyl	7	7	**98 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124354**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-77**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**95**
Analyzed:	**06-27-11 17:19**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**240**	2C (230)*	ug/Kg	42
11096-82-5	Aroclor 1260	**220**	p 2C (93)*	ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**89 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**85 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**96 %**	30 - 150 %
	Decachlorobiphenyl	7	6	**92 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

p Greater than 40% difference between primary and confirmation columns.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124355**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-78**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**97**
Analyzed:	**06-27-11 17:43**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**86**	2C (68)*	ug/Kg	41
11096-82-5	Aroclor 1260	**67**	2C (43)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**63 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**67 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**70 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**76 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124356**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-79**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:40**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 18:07**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**57**	2C (49)*	ug/Kg	40
11096-82-5	Aroclor 1260	**52**	2C (40)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**80 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**80 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**87 %**	30 - 150 %
Column	Decachlorobiphenyl	7	7	**98 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124357**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-80**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:40**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 18:31**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**79 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**85 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**90 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124358**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-81**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:50**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**99**
Analyzed:	**06-29-11 16:10**	Dilution Factor:	**25**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	1,000
11104-28-2	Aroclor 1221	BRL		ug/Kg	1,000
11141-16-5	Aroclor 1232	BRL		ug/Kg	1,000
53469-21-9	Aroclor 1242	BRL		ug/Kg	1,000
12672-29-6	Aroclor 1248	**6,300**	2C (4200)*	ug/Kg	1,000
11097-69-1	Aroclor 1254	BRL		ug/Kg	1,000
11096-82-5	Aroclor 1260	BRL		ug/Kg	1,000
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	1,000
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	1,000

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	na	d	30 - 150 %
Column	Decachlorobiphenyl	7	na	d	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	na	d	30 - 150 %
Column	Decachlorobiphenyl	7	na	d	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124359**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-82**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:50**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 19:18**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	**170**	1C (160)*	ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	**64**	2C (48)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**82** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**85** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**81** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124360**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-83**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**99**
Analyzed:	**06-27-11 19:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**99**	2C (84)*	ug/Kg	40
11096-82-5	Aroclor 1260	**110**	p 2C (53)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**66 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**57 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**70 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**67 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

p Greater than 40% difference between primary and confirmation columns.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124361**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	Cool
Laboratory ID:	**142678-84**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 20:06**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**67**	2C (55)*	ug/Kg	41
11096-82-5	Aroclor 1260	**65**	2C (43)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**72 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**67 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	5	**77 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**75 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124362**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-85**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**97**
Analyzed:	**06-27-11 20:30**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**81**	2C (76)*	ug/Kg	41
11096-82-5	Aroclor 1260	**85**	2C (69)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**75 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**71 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**80 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**81 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124363**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-86**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 20:54**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**110**	2C (67)*	ug/Kg	41
11096-82-5	Aroclor 1260	**84**	2C (56)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	77 %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**81** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**81** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124364**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-87**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 22:29**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**63**	2C (46)*	ug/Kg	40
11096-82-5	Aroclor 1260	**53**	2C (38)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**72 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**68 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**73 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**72 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124365**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-88**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:35**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**97**
Analyzed:	**06-27-11 22:52**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**52**	2C (44)*	ug/Kg	41
11096-82-5	Aroclor 1260	**80**	2C (57)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**83 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**79 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**86 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**86 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124366**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-89**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:52**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 23:16**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**73**	1C (71)*	ug/Kg	40
11096-82-5	Aroclor 1260	**110**	2C (79)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**76** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**91** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**83** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124367**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-90**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-14-11 14:57**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**96**
Analyzed:	**06-28-11 06:01**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**90**	2C (55)*	ug/Kg	41
11096-82-5	Aroclor 1260	**76**	2C (51)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**98** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**86** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**104** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**93** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124368**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-91**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-14-11 15:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**98**
Analyzed:	**06-28-11 06:25**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**69**	2C (46)*	ug/Kg	40
11096-82-5	Aroclor 1260	**52**	2C (39)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**86 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**94 %**	30 - 150 %
Column	Decachlorobiphenyl	7	6	**83 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124369**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-92**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-14-11 15:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**97**
Analyzed:	**06-28-11 06:48**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**56 %**	30 - 150 %
Column	Decachlorobiphenyl	7	3	**51 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	4	**62 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**57 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124370**	Matrix:	**Aqueous**
Project:	**EH&E/17228**	Container:	**1 L Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-93**	QC Batch ID:	**PB-2696-F**
Sampled:	**06-14-11 14:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**870 mL**
Extracted:	**06-16-11 22:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-18-11 01:00**	Dilution Factor:	**1**
Analyzed:	**06-20-11 19:34**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery		QC Limits
First	Tetrachloro-*m*-xylene	0.23	0.59	**257 %**	m	30 - 150 %
Column	Decachlorobiphenyl	0.23	0.28	**122 %**		30 - 150 %
Second	Tetrachloro-*m*-xylene	0.23	0.32	**141 %**		30 - 150 %
Column	Decachlorobiphenyl	0.23	0.19	**84 %**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

m Surrogate recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124371**	Matrix:	**Aqueous**
Project:	**EH&E/17228**	Container:	**1 L Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-94**	QC Batch ID:	**PB-2696-F**
Sampled:	**06-14-11 14:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**870 mL**
Extracted:	**06-16-11 22:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-18-11 01:00**	Dilution Factor:	**1**
Analyzed:	**06-20-11 19:58**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	0.23	0.33	**146 %**	30 - 150 %
Column	Decachlorobiphenyl	0.23	0.17	**75 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	0.23	0.22	**95 %**	30 - 150 %
Column	Decachlorobiphenyl	0.23	0.17	**73 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**EH&E/17228**	Lab ID:	**142678**
Client:	**Environmental Health & Engineering, Inc.**	Received:	**06-15-11 19:15**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. 124613 through 142621 had sample dates on the chain of custody as 6/14/11. Same samples had dates of 6/13/11 on containers. Samples logged in as sampled on 6/13/11 per Karrie-Ann Myer.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8082 Non-conformance: Sample 142678-81. Sample did not have measureable surrogate recoveries due to required sample dilution.
2. EPA 8082 Non-conformance: Samples 142678-19, -21 -29, -30, -32, -34, -35, -36, -39, -40, -55, -60, -64, -65, -72 . Reported results for selected analytes exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.
3. EPA 8082 Note: Samples 142678-35 through -39, -41, -42, -43, -45, -46, -60, -64, -65, -72, -81. Sample were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.
4. EPA 8082 Non-conformance: Samples 142678-70, -93. Samples had surrogate recoveries outside recommended limits due to sample matrix interference.
5. EPA 8082 Non-conformance: Samples 142678-71, -77, -83. Samples had analyte concentration with greater than 40% difference between the primary and confirmation columns.
6. EPA 8082 Note: Sample 142678-81. Samples had extreme weathering of heavy end of Aroclor 1248 pattern.
7. EPA 8082 Non-conformance: Samples 142678-03, -04, -07, -08, -37, -38, -41, -42, -45, -46. Matrix spike and matrix spike duplicate samples had analyte recoveries above recommended limits due to the presence of multiple Aroclors native to the samples.
8. EPA 8082 Note: Samples 142678-01, -02, -05, 09, -19, -21, -22, -25 through -36, -40, -44, -47, -49, -50 through -92. Weighted average used to calculate concentrations, due to multiple Aroclors and non-target matrix interference.

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 6/13/2011

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: Groundwater Analytical

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228

The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124581	S Bulk soil	PCB 8082 w/ Soxlet Extraction	0755 / 6/13/2011
124582	D.		
124583	ms/msD	parent sample: 124581	
124584	S		
124585	D.		
124586	ms/msD	parent: 124584	
124587	S		0810 / 6/13/2011
124588	D		
124589	ms/msD	parent: 124587	
124590	S		0810 / 6/13/2011
124591	D		
124592	ms/msD	parent: 124590	
124593	S		0830 / 6/13/2011
124594	S		0850 6/13/2011
124595	S		0845 6/13/2011
124596	S		0845 6/13/2011

Special Instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

2.8°C ☐ RETURN SAMPLES ☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient crampisano@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: [signature] of Environmental Health & Engineering, Inc. Date: 6/14/11

Received by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11 13:2

Relinquished by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11

Received by: [signature] of (company name) GWA Date: 6/15/11 1915

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

COC 2 of 6

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 6/13/2011

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: Groundwater Analytical

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228

The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124597	S Bulk	PCB 8082 w/ Soxlet Extraction	0850 6/13/2011
124598	S Soil		0855
124599	S		0857
124600	S		0859
124601	S		0906
124602	S		0908
124603	S		0922
124604	S		0924
124605	S		0949
124606	S		0958
124607	S		1000
124608	S		1003
124609	S		1006
124610	S		1008
124611	S		1023
124612	D		1023 6/13/2011

Special Instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

2-8°C ☐ **RETURN SAMPLES** ☐ Electronic transfer - datacoordinator@eheinc.com

☐ Additional report recipient _____

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Relinquished by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11

Received by: [signature] of (company name) GWA Date: 6/15/11

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 6/14/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: GWA

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228

The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124613	ms/msD Bulk soil	parent: 124611 EPA 8082	1023 - 6/14/11
124614	S	Soxhlet extr.	1024
124615	D		1024
124616	ms/msD	parent: 124614	1028
124617	S		1028
124618	D		1045
124619	ms/msD	parent: 124617	1045
124620	S		1045
124621	S		1048
~~124622~~	~~D~~	~~VOID~~	~~1048~~
~~124623~~	~~ms/msD~~	~~parent: 124621 VOID~~	~~1048~~
124624	S		1057
~~124625~~	~~D~~	~~VOID~~	~~1057~~
~~124626~~	~~ms/msD~~	~~parent: 124624 VOID~~	~~1057~~
124627	S		1100
124628	S		1126

Special instructions:

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Relinquished by: Alan Maddigan of (company name) Groundwater a. Date: 6/15/11

Received by: [signature] of (company name) GWA Date: 6/15/1

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Environmental Health & Engineering, Inc.

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117 Fourth Avenue
Needham, MA 02494-2725

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For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124631	Bulk soil	EPA 8082 (PCBs)	1130 6/13/11
124634		Soxhlet extr.	1134
124637			1137
124640			1143
124643			1010 6/14/11
124644			1020
124645			1035
124646			1045
124647			1050
124648			1105
124649			1100
124650			1110
124651			1120
124652			1130
124653			1145
124654			1157

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

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Received by: [signature] of (company name) GWA Date: 6/15/11

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Environmental Health & Engineering, Inc.

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The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124655	Bulk-soil	EPA 8082 - (PCBs)	1215 6/14/11
124346		soxhlet extr.	1215
124347			1225
124348			1225
124349			1233
124350			1305
124351			1305
124352			1315
124353			1315
124354			1330
124355			1330
124356			1340
124357			1340
124358			1350
124359			1350
124360			1405

Special instructions:

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☐ Fax results 781-247-4305

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Received by: [signature] of (company name) GWA Date: 6/15/11

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
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Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

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The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124361	Bulk-Soil	EPA 8082 - (PCBs)	1405 6/14/11
124362	↓	Soxhlet extr.	1425 ↓
124363		↓	1425
124364			1430
124365			1435
124366			1452
124367			1457
124368			1505
124369			1510
124370	Water	EPA 8082 - PCBs	1400 6/14/11
124371	↓	soxhlet extr.	1400 ↓

Special Instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

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Relinquished by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11

Received by: [signature] of (company name) GWA Date: 6/15/1

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3762-X**	Extracted:	**06-23-11 20:30**	Extracted:	**06-23-11 20:30**
Matrix:	**Soil**	Cleaned Up:	**06-25-11 20:00**	Cleaned Up:	**06-25-11 20:00**
Units:	**ug/Kg**	Analyzed:	**06-28-11 00:04**	Analyzed:	**06-28-11 00:28**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	170	170	**101%**	**105%**	170	160	160	**93%**	**95%**	**7 %**	**10 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	170	180	**101%**	**108%**	170	170	180	**104%**	**110%**	**3 %**	**1 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m*-xylene	6.7	6.7	6.8	**101%**	**102%**	6.7	5.8	5.9	**88%**	**89%**		30 - 150 %
Decachlorobiphenyl	6.7	5.9	6.4	**89%**	**96%**	6.7	6.1	6.5	**92%**	**98%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3762-X**	Extracted:	**06-23-11 20:30**
Matrix:	**Soil**	Cleaned Up:	**06-25-11 20:00**
		Analyzed:	**06-27-11 23:40**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	6.5	**98 %**	30 - 150 %
Column	Decachlorobiphenyl	6.7	5.9	**88 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	6.9	**103 %**	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.2	**93 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA 8082	Instrument ID:	GC-11 Agilent 6890	Instrument ID:	GC-11 Agilent 6890
QC Batch ID:	PB-3757-X	Extracted:	06-16-11 14:15	Extracted:	06-16-11 14:15
Matrix:	Soil	Cleaned Up:	06-20-11 21:00	Cleaned Up:	06-20-11 21:00
Units:	ug/Kg	Analyzed:	06-21-11 10:34	Analyzed:	06-21-11 10:57
		Analyst:	CRL	Analyst:	CRL

CAS Number	Analyte	LCS					LCS Duplicate								QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD				
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col		Spike	RPD
12674-11-2	Aroclor 1016	170	150	140	90%	85%	170	160	150	94%	92%	4 %	7 %		40 - 140%	30 %
11096-82-5	Aroclor 1260	170	160	150	97%	89%	170	170	160	102%	96%	5 %	8 %		40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m*-xylene	6.7	5.2	5	79%	75%	6.7	5.4	5.2	82%	78%		30 - 150 %
Decachlorobiphenyl	6.7	6.5	6.2	97%	92%	6.7	6.5	6.6	98%	99%		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-11 Agilent 6890**
QC Batch ID:	**PB-3757-X**	Extracted:	**06-16-11 14:15**
Matrix:	**Soil**	Cleaned Up:	**06-20-11 21:00**
		Analyzed:	**06-21-11 10:10**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	6.7	5.6	**85 %**	30 - 150 %
	Decachlorobiphenyl	6.7	6	**91 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	6.7	5.4	**82 %**	30 - 150 %
	Decachlorobiphenyl	6.7	6.7	**101 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA 8082	Instrument ID:	GC-11 Agilent 6890	Instrument ID:	GC-11 Agilent 6890
QC Batch ID:	PB-3758-X	Extracted:	06-16-11 17:30	Extracted:	06-16-11 17:30
Matrix:	Soil	Cleaned Up:	06-21-11 23:00	Cleaned Up:	06-21-11 23:00
Units:	ug/Kg	Analyzed:	06-22-11 02:13	Analyzed:	06-22-11 02:36
		Analyst:	CRL	Analyst:	CRL

CAS Number	Analyte	LCS					LCS Duplicate								QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD				
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col		Spike	RPD
12674-11-2	Aroclor 1016	170	180	160	109%	98%	170	170	160	104%	97%	5 %	1 %		40 - 140%	30 %
11096-82-5	Aroclor 1260	170	180	170	109%	105%	170	170	170	102%	104%	7 %	1 %		40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m*-xylene	6.7	6	5.5	91%	83%	6.7	6	5.6	91%	84%		30 - 150 %
Decachlorobiphenyl	6.7	6.1	7.1	91%	106%	6.7	6	7	91%	105%		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8082	Instrument ID:	GC-11 Agilent 6890
QC Batch ID:	PB-3758-X	Extracted:	06-16-11 17:30
Matrix:	Soil	Cleaned Up:	06-21-11 23:00
		Analyzed:	06-22-11 01:49
		Analyst:	CRL

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	6.1	**92 %**	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.2	**94 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	5.8	**87 %**	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.9	**104 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Sample

Category:	**EPA Method 608 PCBs**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-2696-F**	Extracted:	**06-16-11 22:00**
Matrix:	**Aqueous**	Cleaned Up:	**06-18-11 01:00**
Units:	**ug/L**	Analyzed:	**06-20-11 15:12**
		Analyst:	**CRL**

CAS Number	Analyte	Spiked	Measured		Recovery		QC Limits
			1st Column	2nd Column	1st Column	2nd Column	
12674-11-2	Aroclor 1016	5.0	4.9	4.7	**99 %**	**93 %**	40 - 140 %
11096-82-5	Aroclor 1260	5.0	4.8	4.7	**96 %**	**94 %**	40 - 140 %

QC Surrogate Compound	Spiked	Measured		Recovery		QC Limits
Tetrachloro-*m*-xylene	0.20	0.18	0.17	**91 %**	**87 %**	30 - 150 %
Decachlorobiphenyl	0.20	0.16	0.16	**81 %**	**81 %**	30 - 150 %

Method Reference: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, US EPA, 40 C.F.R. 136, Appendix A, (1986). Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 608 PCBs	Instrument ID:	GC-13 Agilent 6890
QC Batch ID:	PB-2696-F	Extracted:	06-16-11 22:00
Matrix:	Aqueous	Cleaned Up:	06-18-11 01:00
		Analyzed:	06-20-11 14:48
		Analyst:	CRL

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.20
11104-28-2	Aroclor 1221	BRL		ug/L	0.20
11141-16-5	Aroclor 1232	BRL		ug/L	0.20
53469-21-9	Aroclor 1242	BRL		ug/L	0.20
12672-29-6	Aroclor 1248	BRL		ug/L	0.20
11097-69-1	Aroclor 1254	BRL		ug/L	0.20
11096-82-5	Aroclor 1260	BRL		ug/L	0.20

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	0.20	0.18	89 %	30 - 150 %
	Decachlorobiphenyl	0.20	0.15	77 %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	0.20	0.17	86 %	30 - 150 %
	Decachlorobiphenyl	0.20	0.15	76 %	30 - 150 %

Method Reference: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, US EPA, 40 C.F.R. 136, Appendix A, (1986). Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA 8082	Instrument ID:	GC-13 Agilent 6890	Instrument ID:	GC-13 Agilent 6890
QC Batch ID:	PB-3765-X	Extracted:	06-28-11 18:00	Extracted:	06-28-11 18:00
Matrix:	Soil	Cleaned Up:	06-30-11 00:00	Cleaned Up:	06-30-11 00:00
Units:	ug/Kg	Analyzed:	06-30-11 02:27	Analyzed:	06-30-11 02:51
		Analyst:	CRL	Analyst:	CRL

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	180	170	108%	103%	170	170	160	101%	99%	7 %	4 %	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	170	170	102%	104%	170	170	170	100%	103%	2 %	1 %	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-m-xylene	6.7	6.9	6.9	103%	104%	6.7	6.5	6.4	98%	96%		30 - 150 %
Decachlorobiphenyl	6.7	5.8	6	88%	90%	6.7	5.6	5.9	85%	89%		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3765-X**	Extracted:	**06-28-11 18:00**
Matrix:	**Soil**	Cleaned Up:	**06-30-11 00:00**
		Analyzed:	**06-30-11 02:04**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	7	**106** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	5.8	**86** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	7	**105** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	6	**90** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA 8082	Instrument ID:	GC-13 Agilent 6890	Instrument ID:	GC-13 Agilent 6890
QC Batch ID:	PB-3760-X	Extracted:	06-21-11 13:30	Extracted:	06-21-11 13:30
Matrix:	Soil	Cleaned Up:	06-24-11 15:00	Cleaned Up:	06-24-11 15:00
Units:	ug/Kg	Analyzed:	06-24-11 18:10	Analyzed:	06-24-11 18:34
		Analyst:	CRL	Analyst:	CRL

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	160	160	98%	98%	170	150	160	92%	94%	7 %	5 %	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	170	170	102%	104%	170	170	170	100%	103%	2 %	1 %	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m*-xylene	6.7	6.2	6.1	93%	92%	6.7	5.3	5.3	80%	80%		30 - 150 %
Decachlorobiphenyl	6.7	6.3	6.6	95%	100%	6.7	6.2	6.6	94%	99%		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3760-X**	Extracted:	**06-21-11 13:30**
Matrix:	**Soil**	Cleaned Up:	**06-24-11 15:00**
		Analyzed:	**06-24-11 17:46**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	5.4	**82** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	5.9	**89** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	5.4	**81** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.2	**93** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA 8082	Instrument ID:	GC-13 Agilent 6890	Instrument ID:	GC-13 Agilent 6890
QC Batch ID:	PB-3761-X	Extracted:	06-22-11 03:00	Extracted:	06-22-11 03:00
Matrix:	Soil	Cleaned Up:	06-25-11 18:00	Cleaned Up:	06-25-11 18:00
Units:	ug/Kg	Analyzed:	06-27-11 12:19	Analyzed:	06-27-11 12:43
		Analyst:	CRL	Analyst:	CRL

CAS Number	Analyte	LCS					LCS Duplicate								
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD		QC Limits	
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	140	150	87%	88%	170	170	170	102%	101%	17 %	15 %	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	160	160	95%	98%	170	170	170	101%	105%	6 %	7 %	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m*-xylene	6.7	5.2	5.3	79%	80%	6.7	6.5	6.6	98%	99%		30 - 150 %
Decachlorobiphenyl	6.7	5.9	6.2	89%	93%	6.7	6.2	6.4	93%	97%		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3761-X**	Extracted:	**06-22-11 03:00**
Matrix:	**Soil**	Cleaned Up:	**06-25-11 18:00**
		Analyzed:	**06-27-11 11:55**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	6.1	**92** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.1	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	6.4	**96** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.2	**94** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/Out_State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor, Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt_list_aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health, Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7

Non-Potable Water (Wastewater)

Analyte	Method
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

GROUNDWATER ANALYTICAL

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July 19, 2011

Ms. Cindy Campisano
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

LABORATORY REPORT

Project: **17228**
Lab ID: **143394**
Received: **07-14-11**

Dear Cindy:

Enclosed are the analytical results for the above referenced project. The project was processed for Rush 48 Hour turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/ker

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**17228**	Delivery:	**Hand**	Temperature:	**5.7°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**143394**	Lab Receipt:	**07-14-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-1	125376-SF17		Soil	7/13/11 12:10	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028751	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-2	125377-SF19A		Soil	7/13/11 12:19	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028760	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-3	125378-SF19B		Soil	7/13/11 12:32	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028767	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-4	125379-SF21A		Soil	7/13/11 12:44	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028768	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-5	125380-SF21B		Soil	7/13/11 12:34	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028759	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-6	125381-SF22A		Soil	7/13/11 13:23	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028753	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-7	125382-SF22A-D		Soil	7/13/11 13:23	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028740	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-8	125383-SF22B		Soil	7/13/11 13:25	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028758	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-9	125384-SF22B-MS		Soil	7/13/11 13:25	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028739	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-10	125386-SF23A		Soil	7/13/11 13:45	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028761	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-11	125387-SF23B		Soil	7/13/11 13:39	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028766	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**17228**	Delivery:	**Hand**	Temperature:	**5.7°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**143394**	Lab Receipt:	**07-14-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-12	125388-SF7A		Soil	7/13/11 14:00	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028752	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-13	125385-SF22B-MSD		Soil	7/13/11 13:25	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028741	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-14	125389-SF7B		Soil	7/13/11 13:52	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028750	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-15	125390-SF33A		Soil	7/13/11 14:18	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028769	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-16	125391-SF33B		Soil	7/13/11 14:20	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028749	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-17	125392-SF53A		Soil	7/13/11 14:43	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028762	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-18	125393-SF53B		Soil	7/13/11 14:48	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028765	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-19	125394-SF53A-MS		Soil	7/13/11 14:43	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028743	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-20	125395-SF53A-MSD		Soil	7/13/11 14:43	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028744	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-21	125396-SF53B-D		Soil	7/13/11 14:48	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028742	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-22	125397-SF36		Soil	7/13/11 15:25	EPA 8082 PCBs				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C2028754	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**17228**	Delivery:	**Hand**	Temperature:	**5.7°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**143394**	Lab Receipt:	**07-14-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-23	125398-SF38		Soil	7/13/11 15:36	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028757	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project: ####
Client: **Environmental Health & Engineering, Inc.**

Lab ID: **143394**
Received: **07-14-11 10:50**

Mass DEP Analytical Protocol Certification Form

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8082: 143394-1,-2,-3,-4,-5,-6,-7,-8,-9,-10,-11,-12,-13,-14,-15,-16,-17,-18,-19,-20,-21,-22,-23

Sample Matrices: Groundwater/Surface ( ) Soil/Sediment (X) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC CAM II A ( )	7470/7471 Hg CAM III B ( )	Mass DEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	Mass DEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	Mass DEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9012 Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

An affirmative response to questions A through F are required for "Presumptive Certainty" status.

A.	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratoratory, and prepared/analyzed within method holding times?	Yes
B.	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes
C.	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes
D.	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes
E.	VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	n/a
F.	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes

Responses to questions G, H and I below are required for "Presumptive Certainty" status.

G.	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	No

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H.	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I.	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes

All negative responses must be addressed in an attached laboratory 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: Karyn E. Raymond Position: Project Manager

Printed Name: Karyn E. Raymond Date: 07-19-11

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125376-SF17**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-01**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**74**
Analyzed:	**07-16-11 03:53**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	54
11104-28-2	Aroclor 1221	BRL		ug/Kg	54
11141-16-5	Aroclor 1232	BRL		ug/Kg	54
53469-21-9	Aroclor 1242	BRL		ug/Kg	54
12672-29-6	Aroclor 1248	BRL		ug/Kg	54
11097-69-1	Aroclor 1254	**140**	2C (130)*	ug/Kg	54
11096-82-5	Aroclor 1260	BRL		ug/Kg	54
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	54
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	54

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	9	8	**85** %	30 - 150 %
Column	Decachlorobiphenyl	9	6	**70** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	9	10	**109** %	30 - 150 %
Column	Decachlorobiphenyl	9	7	**75** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125377-SF19A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-02**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:19**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**77**
Analyzed:	**07-16-11 04:17**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	52
11104-28-2	Aroclor 1221	BRL		ug/Kg	52
11141-16-5	Aroclor 1232	BRL		ug/Kg	52
53469-21-9	Aroclor 1242	BRL		ug/Kg	52
12672-29-6	Aroclor 1248	BRL		ug/Kg	52
11097-69-1	Aroclor 1254	**74**	1C (59)*	ug/Kg	52
11096-82-5	Aroclor 1260	BRL		ug/Kg	52
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	52
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	52

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	9	8	**94 %**	30 - 150 %
	Decachlorobiphenyl	9	6	**65 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	9	9	**104 %**	30 - 150 %
	Decachlorobiphenyl	9	6	**69 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125378-SF19B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-03**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:32**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**88**
Analyzed:	**07-16-11 04:41**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**250**	1C (220)*	ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**81 %**	30 - 150 %
Column	Decachlorobiphenyl	8	5	**70 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**94 %**	30 - 150 %
Column	Decachlorobiphenyl	8	5	**71 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125379-SF21A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-04**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:44**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**87**
Analyzed:	**07-16-11 05:04**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	BRL		ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**74 %**	30 - 150 %
	Decachlorobiphenyl	8	4	**53 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**82 %**	30 - 150 %
	Decachlorobiphenyl	8	4	**55 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125380-SF21B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-05**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:34**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**95**
Analyzed:	**07-16-11 05:28**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**63**	1C (60)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**67** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**58** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**71** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**58** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125381-SF22A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-06**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**87**
Analyzed:	**07-16-11 05:51**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	BRL		ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	7	**91 %**	30 - 150 %
Column	Decachlorobiphenyl	8	5	**69 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**96 %**	30 - 150 %
Column	Decachlorobiphenyl	8	5	**65 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125382-SF22A-D**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-07**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**86**
Analyzed:	**07-16-11 06:15**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	BRL		ug/Kg	46
11097-69-1	Aroclor 1254	BRL		ug/Kg	46
11096-82-5	Aroclor 1260	BRL		ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**76 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**64 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**84 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**63 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125383-SF22B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-08**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**95**
Analyzed:	**07-16-11 07:49**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**920**	e 2C (610)*	ug/Kg	42
11097-69-1	Aroclor 1254	**520**	e 1C (410)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**95 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**74 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**104 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**73 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Non-target analyte. Result is based on a single mid-range calibration standard.
- * Confirmatory column quantification.
- 1C Concentration reported from first column.
- 2C Concentration reported from second column.
- e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125383-SF22B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-08RA1**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**95**
Analyzed:	**07-18-11 10:49**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**1000**	2C (630)*	ug/Kg	210
11097-69-1	Aroclor 1254	**430**	2C (420)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**96 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	8	**111 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**72 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	12583-SF-22B	Laboratory ID:	143394-8	143394-9	143394-13
Project:	17228	Sampled:	07-13-11 13:25	07-13-11 13:25	07-13-11 13:25
Client:	Environmental Health & Engineering	Received:	07-14-11 10:50	07-14-11 10:50	07-14-11 10:50
Matrix:	Soil	Extracted:	07-14-11 21:00	07-14-11 21:00	07-14-11 21:00
Container:	250 mL Glass	Cleaned Up:	07-15-11 22:00	07-15-11 22:00	07-15-11 22:00
Preservation:	Cool	Analyzed:	07-16-11 07:49	07-16-11 08:13	07-16-11 08:37
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3770-X	PB-3770-X	PB-3770-X
		Instrument ID:	GC-13 HP 6890	GC-6 HP 5890	GC-6 HP 5890
		Sample Weight:	30g	30g	30g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	95	94	95
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Lim
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike
12674-11-2	Aroclor 1016	BRL	170	360	370	210 % s	214 % s	170	420	400	248 % s	234 % s	16 %	8 %	40 - 140%
11096-82-5	Aroclor 1260	BRL	170	250	380	147 % s	219 % s	170	270	390	157 % s	229 % s	6 %	3 %	40 - 140%

QC Surrogate Compound	Surrogate Recovery												QC Lin
Tetrachloro-m-xylene	96%	7	6	7	81%	97%	7	7	6	99%	93%		30 - 150
Decachlorobiphenyl	74%	7	4	5	63%	67%	7	5	5	67%	68%		30 - 150

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

s Recovery outside recommended limits due to high concentration of analyte native to sample.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125386-SF23A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-10**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:45**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**88**
Analyzed:	**07-16-11 09:00**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**70**	1C (53)*	ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	8	**101** %	30 - 150 %
	Decachlorobiphenyl	8	6	**73** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	8	**108** %	30 - 150 %
	Decachlorobiphenyl	8	6	**73** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125387-SF23B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-11**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:39**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**96**
Analyzed:	**07-16-11 09:24**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	**300**	2C (270)*	ug/Kg	41
11097-69-1	Aroclor 1254	**220**	1C (170)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**81 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**68 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**89 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**73 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125388-SF7A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-12**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**95**
Analyzed:	**07-16-11 09:48**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**97**	1C (80)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**89 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**95 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125389-SF7B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-14**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:52**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**98**
Analyzed:	**07-16-11 10:11**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**100**	1C (75)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**81 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**74 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**92 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**75 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125390-SF33A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-15**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:18**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**84**
Analyzed:	**07-16-11 10:35**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**1700**	e 2C (1400)*	ug/Kg	47
11096-82-5	Aroclor 1260	BRL		ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**78 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**60 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	7	**84 %**	30 - 150 %
	Decachlorobiphenyl	8	5	**62 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125390-SF33A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-15RA1**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:18**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**84**
Analyzed:	**07-18-11 11:12**	Dilution Factor:	**10**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	470
11104-28-2	Aroclor 1221	BRL		ug/Kg	470
11141-16-5	Aroclor 1232	BRL		ug/Kg	470
53469-21-9	Aroclor 1242	BRL		ug/Kg	470
12672-29-6	Aroclor 1248	BRL		ug/Kg	470
11097-69-1	Aroclor 1254	**1400**	2C (1300)*	ug/Kg	470
11096-82-5	Aroclor 1260	BRL		ug/Kg	470
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	470
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	470

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	**7**	**93 %**	30 - 150 %
Column	Decachlorobiphenyl	8	5	**57 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	**8**	**102 %**	30 - 150 %
Column	Decachlorobiphenyl	8	5	**60 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125391-SF33B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-16**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**93**
Analyzed:	**07-16-11 10:59**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**920**	e 2C (830)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**79 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**69 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**88 %**	30 - 150 %
Column	Decachlorobiphenyl	7	5	**76 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125391-SF33B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-16RA1**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**93**
Analyzed:	**07-18-11 11:36**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	BRL		ug/Kg	210
11097-69-1	Aroclor 1254	**900**	2C (850)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**94** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**68** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**103** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**71** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125392-SF53A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-17**	QC Batch ID:	**PB-3771-X**
Sampled:	**07-13-11 14:43**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:30**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 20:00**	Percent Solids:	**97**
Analyzed:	**07-16-11 14:32**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**100**	1C (95)*	ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**94 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**59 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**104 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**66 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	12583-SF-53A	Laboratory ID:	143394-17	143394-19	143394-20
Project:	17228	Sampled:	07-13-11 14:48	07-13-11 13:25	07-13-11 13:25
Client:	Environmental Health & Engineering	Received:	07-14-11 10:50	07-14-11 10:50	07-14-11 10:50
Matrix:	Soil	Extracted:	07-14-11 21:00	07-14-11 21:00	07-14-11 21:00
Container:	250 mL Glass	Cleaned Up:	07-15-11 22:00	07-15-11 22:00	07-15-11 22:00
Preservation:	Cool	Analyzed:	07-16-11 14:32	07-16-11 15:19	07-16-11 15:43
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3770-X	PB-3770-X	PB-3770-X
		Instrument ID:	GC-13 HP 6890	GC-6 HP 5890	GC-6 HP 5890
		Sample Weight:	30g	30g	30g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	98	94	95
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limi
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike
12674-11-2	Aroclor 1016	BRL	170	210	210	120 %	124 %	170	170	190	101 %	109 %	18 %	13 %	40 - 140%
11096-82-5	Aroclor 1260	BRL	170	240	300	137 %	176 % q	170	200	270	119 %	157 % q	15 %	12 %	40 - 140%

QC Surrogate Compound	Surrogate Recovery												QC Lim
Tetrachloro-*m*-xylene	94%	7	7	8	107%	116%	7	6	7	84%	97%		30 - 150
Decachlorobiphenyl	59%	7	4	5	61%	71%	7	3	4	50%	58%		30 - 150

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125393-SF53B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-18**	QC Batch ID:	**PB-3771-X**
Sampled:	**07-13-11 14:48**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:30**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 20:00**	Percent Solids:	**98**
Analyzed:	**07-16-11 14:55**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	BRL		ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**89 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**57 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**99 %**	30 - 150 %
Column	Decachlorobiphenyl	7	4	**63 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125396-SF53B-D**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-21**	QC Batch ID:	**PB-3771-X**
Sampled:	**07-13-11 14:48**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:30**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 20:00**	Percent Solids:	**98**
Analyzed:	**07-16-11 16:06**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**92 %**	30 - 150 %
	Decachlorobiphenyl	7	4	**59 %**	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**104 %**	30 - 150 %
	Decachlorobiphenyl	7	5	**67 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125397-SF36**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-22**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 15:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**74**
Analyzed:	**07-16-11 11:22**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	53
11104-28-2	Aroclor 1221	BRL		ug/Kg	53
11141-16-5	Aroclor 1232	BRL		ug/Kg	53
53469-21-9	Aroclor 1242	BRL		ug/Kg	53
12672-29-6	Aroclor 1248	BRL		ug/Kg	53
11097-69-1	Aroclor 1254	**270**	1C (270)*	ug/Kg	53
11096-82-5	Aroclor 1260	BRL		ug/Kg	53
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	53
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	53

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	9	7	**81** %	30 - 150 %
Column	Decachlorobiphenyl	9	6	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	9	8	**96** %	30 - 150 %
Column	Decachlorobiphenyl	9	7	**80** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125398-SF38**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-23**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 15:36**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**64**
Analyzed:	**07-16-11 11:46**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	63
11104-28-2	Aroclor 1221	BRL		ug/Kg	63
11141-16-5	Aroclor 1232	BRL		ug/Kg	63
53469-21-9	Aroclor 1242	BRL		ug/Kg	63
12672-29-6	Aroclor 1248	BRL		ug/Kg	63
11097-69-1	Aroclor 1254	**430**	e 1C (410)*	ug/Kg	63
11096-82-5	Aroclor 1260	BRL		ug/Kg	63
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	63
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	63

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	10	7	**66 %**	30 - 150 %
Column	Decachlorobiphenyl	10	7	**70 %**	30 - 150 %
Second	Tetrachloro-*m*-xylene	10	10	**91 %**	30 - 150 %
Column	Decachlorobiphenyl	10	7	**69 %**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125398-SF38**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-23RA1**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 15:36**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**64**
Analyzed:	**07-18-11 13:20**	Dilution Factor:	**2**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	130
11104-28-2	Aroclor 1221	BRL		ug/Kg	130
11141-16-5	Aroclor 1232	BRL		ug/Kg	130
53469-21-9	Aroclor 1242	BRL		ug/Kg	130
12672-29-6	Aroclor 1248	BRL		ug/Kg	130
11097-69-1	Aroclor 1254	**430**	2C (420)*	ug/Kg	130
11096-82-5	Aroclor 1260	BRL		ug/Kg	130
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	130
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	130

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	10	10	**94** %	30 - 150 %
Column	Decachlorobiphenyl	10	8	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	10	10	**100** %	30 - 150 %
Column	Decachlorobiphenyl	10	7	**66** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**17228**	Lab ID:	**143394**
Client:	**Environmental Health & Engineering, Inc.**	Received:	**07-14-11 10:50**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8082 Non-conformance: Samples 143394-08, -15, -16, -23. Reported results for selected analyte exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.
2. EPA 8082 Note: Samples 143394-08,- 15, -16, -23. Sample were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.
3. EPA 8082 Non-conformance: Sample 143394-8. Matrix spike recovery was above recommend limits due to high concentration of analyte native to the sample.
4. EPA 8082 Note: Sample 143394-17. Matrix spike recovery was above recommend limits on the second column. Recovery was within criteria on the primary column.

GROUNDWATER ANALYTICAL

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Buzzards Bay, MA 02532
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CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: —	Firm: EH+E
Project Number: 17228	Address: 117 4th Ave
Sampler Name: EH, ASB	City / State / Zip: Needham, MA 02494
Project Manager: CDC	Telephone: 781 247 4300

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ STANDARD (10 Business Days)
- ☐ PRIORITY (5 Business Days)
- ☒ RUSH (RAN- by Mon 7/18/11)
  (Rush requires Rush Authorization Number)
- ☒ Please Email to: ccampisano@eheinc.com
- ☐ Please FAX to: _____

BILLING

- ☒ Purchase Order No.: 1002033
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
3-11	1210	125376-SF17	SOIL	COMPOSITE	1	ICE	YES	
	1219	125377-SF19A						
	1232	125378-SF19B						
	1244	125379-SF21A						
	1234	125380-SF21B						
	1323	125381-SF22A						
	1323	125382-SF22A-D						
	1325	125383-SF22B						
	1325	125384-SF22B-MS						
	1335	125386-SF23A						
	1339	125387-SF23B						
	1400	125388-SF7A						

Analysis columns: Options; Volatiles (TIC Search); Semivolatiles (8270 Only, MA Only, TIC Search); Pest/Herb/PCBs Extractable Vol.; Metals (Specify for Water samples: Total, Dissolved); Petroleum Hydrocarbon Ext. TPH, Vol. TPH; Haz. Waste; General Chemistry; Other.

Specimen analysis: 8260B VOA, 8260B MA PETROLEUM, 8260B, 8021B Aromatics, 8021B Halocarbons, 8021B, 8270C, 8270C PAHs only, 8081A Pesticides, 8082 PCBs, 8151A Herbicides, 8011 EDB/DBCP, 6010 RCRA, 6010 MA Metals, 7470 Hg, Specify, TPH-GC, Diesel Range Organics (DRO), MA DRO, CT ETPH, MA DEP EPH and targets, EPH Carbon Ranges only, EPH with PAHs, Hydrocarbon Fingerprint (GC/FID) by ASTM D3328-00 Mod., TPH by GC/FID (8015B Mod) Quantitation Only, Gasoline Range Organics (GRO), MA DEP VPH and targets, VPH Carbon ranges only, Cl, F, SO4, Br, Nitrate, Nitrite, Phosphate, Sulfate, Alkalinity, Total Phosphorus, Total N (as N02/N03/TKN), Ammonia, TKN, Total Phosphorus, Total N (as N02/N03/TKN), Oil & Grease, COD, TOC, BOD, TTSS, TSS, Alkalinity, Cyanide, Total Cr, Cyanide, Reactivity, Ignitability, Corrosivity, Total Coliform, Fecal Coliform, TRPC

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation

- ☐ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample included.
  (Require collection of contingent duplicate sample. Trip blanks are also required, if VOA sample collected).

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☐ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless preamranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
- ☐ Sample Duplicate
- ☐ Matrix Spike
- ☐ Matrix Spike Duplicate

Selection of QC Sample
- ☐ Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler:	Date / Time: 14 Jul 11 1050	Received by:	Receipt Temperature: 5.7°C ☐ Ice ☐ Refrigerated 2-8°C Recommended
Relinquished by:	Date / Time	Received by:	Container Count:
Relinquished by:	Date / Time	Received by Laboratory:	Shipping/Airbill Number:
Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____			Custody Seal Number:

GROUNDWATER ANALYTICAL

228 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: —	Firm: EH&E
Project Number: 17228	Address: 117 4th Ave
Sampler Name: EH, ASB	City / State / Zip: Needham, MA 02494
Project Manager: CDC	Telephone: 781 247 4300

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ STANDARD (10 Business Days)
- ☐ PRIORITY (5 Business Days)
- ☒ RUSH (RAN- by Mon 7/18/11)
  (Rush requires Rush Authorization Number)
- ☒ Please Email to: ccampisano@ehsinc.com
- ☐ Please FAX to: _____

BILLING

- ☒ Purchase Order No.: 10012033
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: (1) TIC Search; Acid Only; B/N Only; TIC Search

SDWA: (7) 524.2-MTBE; 524.2; 505; 505 PA Only; 506; 507; 508; 508 Pesticides; 508 PCBs; 508A; 515.1; 515.1 EDB/DBCP; 504.1 EDB/DBCP; Lead and Copper

NPDES: 624; 1624-MTBE; 1627; 601/602-MTBE; 625; 625 PA Only; 608 Pesticides; 608 PCBs; 613 Priority Pollutant; 615; 8015 Herbicides; 8151A Herbicides; 8081 EDB/DBCP; 8260B TCL-MTBE; 8260B 524 PETROLEUM; 8260B; 8260B Aromatics; 8260B Halocarbons; 8260B; 8270C; 8270C PAHs only; 8270C Pesticides; Specify Pesticides; 8151A Herbicides; 8081 EDB/DBCP; 8 RCRA; 13 RCRA; 14 RCRA; NA List Metals; 23 TAL; Specify:

Volatiles; Semivolatiles; Pest/Herb/PCBs (Extractable, Vol.); Metals (Specify For Water Samples: Total, Dissolved); Petroleum Hydrocarbon (Ext. TPH, Vol. TPH); Haz. Waste; General Chemistry; Other

Petroleum Hydrocarbon: TPH-IR; Diesel Range Organics (DRO); ME DRO; CT ETPH; MA DEP Extractable Aliphatics; MA DEP Carbon Ranges only; MA DEP with PAHs; Hydrocarbon Fingerprint (GC/FID by ASTM D3328-00-Mod.); TPH by GC/FID (8015B Mod.) Gasoline Only; Gasoline Range Organics (GRO); ME GRO; MA DEP VPH total targets; VPH Carbon ranges only

Haz. Waste: TCLP 1312 SPLP; 8 Metals; Pb only; VOA; Semi VOA; Pesticides; Herbicides; Corrosivity (as pH); Reactivity; Ignitability (as Flashpoint); Paint Filter; MA Basic Disposal Criteria: Ignit, TPH by GC, PCBs, 6 Metals, Corrosivity, Ignitability, Reactivity; Ignitability; Reactivity; Sulfide; Cyanide; Total Phenolics; Total Metals; Arsenic; TKN; Total Phosphorus; Total Metals (as NO2/NO3/TKN); Oil & Grease; Chlorine; TOC; BOD; TDS; TSS; TS; Alkalinity; Chloride, Total; Cyanide, Physiologically Available; pH; Dissolved Oxygen; Turbidity; Total Coliform; Fecal Coliform; SVOC

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix: GROUNDWATER	DRINKING WATER	WASTEWATER	SOIL	OTHER SOLID	ORGANIC LIQUID	Type: COMPOSITE	GRAB	Container(s): NUMBER	40mL VOA Vial	60mL/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	120mL Sterile	Preservation: HCl	HNO3	H2SO4	NaOH	Unpreserved	Sodium Bisulfate	Filtered: YES	NO	LABORATORY NUMBER (Lab Use Only)
7/12/11	1325	125385-SF22B-MSD			X				X		4			X													X	X		
	1352	125389-SF1B																												
	1418	125390-SF33A																												
	1420	125391-SF33B																												
	1443	125392-SF53A																												
	1448	125393-SF53B																												
	1443	125394-SF53A-MS																												
	1443	125395-SF53A-MSD																												
	1448	125396-SF53B-D																												
	1525	125397-SF36																												
	1526	125398-SF38																												

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation

- ☐ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample included.

(Require collection of contingent duplicate sample. Trip blanks are also required, if VOA sample collected).

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☐ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required.
- ☐ Sample Duplicate
- ☐ Matrix Spike
- ☐ Matrix Spike Duplicate

Selection of QC Sample
- ☐ Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler:	Date	Time	Received by:	Receipt Temperature:
Adam S. Berg	14 Jul 11	1450		☒ Ice ☐ Refrigerated 2-4°C Recommended 5.7°C
Relinquished by:	**Date**	**Time**	**Received by:**	**Container Count:**
Relinquished by:	**Date**	**Time**	**Received by Laboratory:**	**Shipping/Airbill Number:**

Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA 8082	Instrument ID:	GC-13 Agilent 6890	Instrument ID:	GC-13 Agilent 6890
QC Batch ID:	PB-3770-X	Extracted:	07-14-11 21:00	Extracted:	07-14-11 21:00
Matrix:	Soil	Cleaned Up:	07-15-11 22:00	Cleaned Up:	07-15-11 22:00
Units:	ug/Kg	Analyzed:	07-16-11 03:06	Analyzed:	07-16-11 03:30
		Analyst:	CRL	Analyst:	CRL

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	170	170	102%	101%	170	170	170	102%	104%	0 %	2 %	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	170	180	103%	105%	170	170	180	103%	107%	0 %	2 %	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m*-xylene	6.7	6.7	6.6	101%	100%	6.7	6.5	6.5	98%	98%		30 - 150 %
Decachlorobiphenyl	6.7	4.7	4.7	70%	71%	6.7	4.6	4.7	70%	71%		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3770-X**	Extracted:	**07-14-11 21:00**
Matrix:	**Soil**	Cleaned Up:	**07-15-11 22:00**
		Analyzed:	**07-16-11 02:43**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	6.5	**98** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	4.3	**65** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	6.6	**100** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	4.6	**69** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA 8082	Instrument ID:	GC-13 Agilent 6890	Instrument ID:	GC-13 Agilent 6890
QC Batch ID:	PB-3771-X	Extracted:	07-14-11 21:30	Extracted:	07-14-11 21:30
Matrix:	Soil	Cleaned Up:	07-15-11 20:00	Cleaned Up:	07-15-11 20:00
Units:	ug/Kg	Analyzed:	07-16-11 13:44	Analyzed:	07-16-11 14:08
		Analyst:	CRL	Analyst:	CRL

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	190	180	115%	110%	170	200	180	118%	106%	2 %	3 %	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	180	180	107%	109%	170	180	180	108%	110%	1 %	1 %	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m*-xylene	6.7	6.9	6.7	103%	101%	6.7	6.9	6.7	103%	101%		30 - 150 %
Decachlorobiphenyl	6.7	4.4	4.5	66%	68%	6.7	4.5	4.6	67%	69%		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction perfomed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3771-X**	Extracted:	**07-14-11 21:30**
Matrix:	**Soil**	Cleaned Up:	**07-15-11 20:00**
		Analyzed:	**07-16-11 13:20**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	6.5	**98** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	4	**60** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	6.5	**98** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	4.2	**64** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/Out_State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor, Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt_list_aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health, Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7

Non-Potable Water (Wastewater)

Analyte	Method
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

ANALYTICAL REPORT

Lab Number:	L1113011
Client:	Environmental Health & Engineering Inc. 117 Fourth Ave Needham, MA 02494
ATTN:	C. Campisano
Phone:	(781) 247-4300
Project Name:	Not Specified
Project Number:	17228
Report Date:	09/29/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113011-01	126736SE1	Not Specified	08/22/11 10:10
L1113011-02	126737SE1-D	Not Specified	08/22/11 10:10
L1113011-03	126740SE3	Not Specified	08/22/11 10:20
L1113011-04	126741SE4	Not Specified	08/22/11 10:32
L1113011-05	126742SE5	Not Specified	08/22/11 10:53
L1113011-06	126743SE6	Not Specified	08/22/11 10:57
L1113011-07	126744SE7	Not Specified	08/22/11 11:05
L1113011-08	126745SE8	Not Specified	08/22/11 11:21
L1113011-09	126746SE9	Not Specified	08/22/11 12:08
L1113011-10	126747SE9-D	Not Specified	08/22/11 12:08
L1113011-11	126748SE10	Not Specified	08/22/11 12:21
L1113011-12	126749SE11	Not Specified	08/22/11 12:45
L1113011-13	126750SE12	Not Specified	08/22/11 13:03
L1113011-14	126751SE13	Not Specified	08/22/11 13:10
L1113011-15	126754SE14	Not Specified	08/22/11 13:58
L1113011-16	126755SE15	Not Specified	08/22/11 14:18
L1113011-17	126756SE16	Not Specified	08/22/11 14:30
L1113011-18	126757SE17	Not Specified	08/22/11 14:38
L1113011-19	126758SE18	Not Specified	08/22/11 14:45
L1113011-20	126759SE2	Not Specified	08/22/11 14:50

Project Name: Not Specified **Lab Number:** L1113011

Project Number: 17228 **Report Date:** 09/29/11

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 through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

Case Narrative

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

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

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

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report replaces the report issued on September 2, 2011. At the client's request, the report format has been changed in order to comply with MCP methodologies.

MCP Related Narratives

PCBs

Method Reference:

EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSCCAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

In reference to question H:

L1113011-12 was re-extracted due to LCS recoveries on the confirmation column being above MCP criteria.

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

Case Narrative (continued)

The results from both extractions are reported.

The WG486103-4/-5 MS/MSD RPD, performed on L1113011-01, is above the acceptance criteria for Aroclor 1260 (51%); however, the individual MS/MSD recoveries are within method limits.

The surrogate recoveries for the WG487614-2/-3 LCS/LCSD, associated with L1113011-08 and -12, are above the individual acceptance criteria for Decachlorobiphenyl (156%/161%), 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: Michelle M. Morris

Title: Technical Director/Representative

Date: 09/29/11

ORGANICS

PCBS

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-01	Date Collected:	08/22/11 10:10
Client ID:	126736SE1	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 07:28	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	94%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	33.9	--	1
Aroclor 1221	ND		ug/kg	33.9	--	1
Aroclor 1232	ND		ug/kg	33.9	--	1
Aroclor 1248	ND		ug/kg	33.9	--	1
Aroclor 1254	ND		ug/kg	33.9	--	1
Aroclor 1262	ND		ug/kg	33.9	--	1
Aroclor 1268	ND		ug/kg	33.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	77		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-01	Date Collected:	08/22/11 10:10
Client ID:	126736SE1	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 07:28	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	94%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1242	54.3		ug/kg	33.9	--	1
Aroclor 1260	ND		ug/kg	33.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	77		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-02	Date Collected:	08/22/11 10:10
Client ID:	126737SE1-D	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 07:44	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	94%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	33.7	--	1
Aroclor 1221	ND		ug/kg	33.7	--	1
Aroclor 1232	ND		ug/kg	33.7	--	1
Aroclor 1242	67.4		ug/kg	33.7	--	1
Aroclor 1248	ND		ug/kg	33.7	--	1
Aroclor 1254	ND		ug/kg	33.7	--	1
Aroclor 1260	ND		ug/kg	33.7	--	1
Aroclor 1262	ND		ug/kg	33.7	--	1
Aroclor 1268	ND		ug/kg	33.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	44		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	53		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-03	Date Collected:	08/22/11 10:20
Client ID:	126740SE3	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 08:00	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.7	--	1
Aroclor 1221	ND		ug/kg	36.7	--	1
Aroclor 1232	ND		ug/kg	36.7	--	1
Aroclor 1242	ND		ug/kg	36.7	--	1
Aroclor 1248	ND		ug/kg	36.7	--	1
Aroclor 1254	ND		ug/kg	36.7	--	1
Aroclor 1260	ND		ug/kg	36.7	--	1
Aroclor 1262	ND		ug/kg	36.7	--	1
Aroclor 1268	ND		ug/kg	36.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	58		30-150
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	74		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-04	Date Collected:	08/22/11 10:32
Client ID:	126741SE4	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 08:16	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.3	--	1
Aroclor 1221	ND		ug/kg	35.3	--	1
Aroclor 1232	ND		ug/kg	35.3	--	1
Aroclor 1242	ND		ug/kg	35.3	--	1
Aroclor 1248	ND		ug/kg	35.3	--	1
Aroclor 1254	ND		ug/kg	35.3	--	1
Aroclor 1260	ND		ug/kg	35.3	--	1
Aroclor 1262	ND		ug/kg	35.3	--	1
Aroclor 1268	ND		ug/kg	35.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	38		30-150
Decachlorobiphenyl	43		30-150
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	53		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-05	Date Collected:	08/22/11 10:53
Client ID:	126742SE5	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 08:32	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	90%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	34.8	--	1
Aroclor 1221	ND		ug/kg	34.8	--	1
Aroclor 1232	ND		ug/kg	34.8	--	1
Aroclor 1242	ND		ug/kg	34.8	--	1
Aroclor 1248	63.9		ug/kg	34.8	--	1
Aroclor 1254	ND		ug/kg	34.8	--	1
Aroclor 1260	39.9		ug/kg	34.8	--	1
Aroclor 1262	ND		ug/kg	34.8	--	1
Aroclor 1268	ND		ug/kg	34.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	84		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-06	Date Collected:	08/22/11 10:57
Client ID:	126743SE6	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 08:48	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.4	--	1
Aroclor 1221	ND		ug/kg	36.4	--	1
Aroclor 1232	ND		ug/kg	36.4	--	1
Aroclor 1242	83.6		ug/kg	36.4	--	1
Aroclor 1248	ND		ug/kg	36.4	--	1
Aroclor 1254	ND		ug/kg	36.4	--	1
Aroclor 1262	ND		ug/kg	36.4	--	1
Aroclor 1268	ND		ug/kg	36.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	43		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	59		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-06	Date Collected:	08/22/11 10:57
Client ID:	126743SE6	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 08:48	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1260	49.1		ug/kg	36.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	43		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	59		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-07	Date Collected:	08/22/11 11:05
Client ID:	126744SE7	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 09:04	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.1	--	1
Aroclor 1221	ND		ug/kg	36.1	--	1
Aroclor 1232	ND		ug/kg	36.1	--	1
Aroclor 1242	ND		ug/kg	36.1	--	1
Aroclor 1248	ND		ug/kg	36.1	--	1
Aroclor 1254	ND		ug/kg	36.1	--	1
Aroclor 1260	ND		ug/kg	36.1	--	1
Aroclor 1262	ND		ug/kg	36.1	--	1
Aroclor 1268	ND		ug/kg	36.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	55		30-150
Decachlorobiphenyl	42		30-150
2,4,5,6-Tetrachloro-m-xylene	48		30-150
Decachlorobiphenyl	49		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-08	Date Collected:	08/22/11 11:21
Client ID:	126745SE8	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	09/01/11 19:00
Analytical Date:	09/02/11 15:32	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	09/02/11
Percent Solids:	85%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/02/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.0	--	1
Aroclor 1221	ND		ug/kg	37.0	--	1
Aroclor 1232	ND		ug/kg	37.0	--	1
Aroclor 1242	ND		ug/kg	37.0	--	1
Aroclor 1248	ND		ug/kg	37.0	--	1
Aroclor 1254	ND		ug/kg	37.0	--	1
Aroclor 1260	ND		ug/kg	37.0	--	1
Aroclor 1262	ND		ug/kg	37.0	--	1
Aroclor 1268	ND		ug/kg	37.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	47		30-150
Decachlorobiphenyl	48		30-150
2,4,5,6-Tetrachloro-m-xylene	51		30-150
Decachlorobiphenyl	60		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-09	Date Collected:	08/22/11 12:08
Client ID:	126746SE9	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 09:36	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.7	--	1
Aroclor 1221	ND		ug/kg	35.7	--	1
Aroclor 1232	ND		ug/kg	35.7	--	1
Aroclor 1242	ND		ug/kg	35.7	--	1
Aroclor 1248	ND		ug/kg	35.7	--	1
Aroclor 1254	ND		ug/kg	35.7	--	1
Aroclor 1260	ND		ug/kg	35.7	--	1
Aroclor 1262	ND		ug/kg	35.7	--	1
Aroclor 1268	ND		ug/kg	35.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	47		30-150
Decachlorobiphenyl	54		30-150
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	58		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-10	Date Collected:	08/22/11 12:08
Client ID:	126747SE9-D	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 09:52	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.9	--	1
Aroclor 1221	ND		ug/kg	35.9	--	1
Aroclor 1232	ND		ug/kg	35.9	--	1
Aroclor 1242	ND		ug/kg	35.9	--	1
Aroclor 1248	ND		ug/kg	35.9	--	1
Aroclor 1254	ND		ug/kg	35.9	--	1
Aroclor 1260	ND		ug/kg	35.9	--	1
Aroclor 1262	ND		ug/kg	35.9	--	1
Aroclor 1268	ND		ug/kg	35.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	72		30-150
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	78		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-11	Date Collected:	08/22/11 12:21
Client ID:	126748SE10	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 10:08	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	82%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.2	--	1
Aroclor 1221	ND		ug/kg	38.2	--	1
Aroclor 1232	ND		ug/kg	38.2	--	1
Aroclor 1242	ND		ug/kg	38.2	--	1
Aroclor 1254	ND		ug/kg	38.2	--	1
Aroclor 1260	ND		ug/kg	38.2	--	1
Aroclor 1262	ND		ug/kg	38.2	--	1
Aroclor 1268	ND		ug/kg	38.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	72		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-11	Date Collected:	08/22/11 12:21
Client ID:	126748SE10	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 10:08	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	82%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1248	120		ug/kg	38.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	72		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-12	Date Collected:	08/22/11 12:45
Client ID:	126749SE11	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	09/01/11 19:00
Analytical Date:	09/02/11 15:16	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	09/02/11
Percent Solids:	83%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/02/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	39.2	--	1
Aroclor 1221	ND		ug/kg	39.2	--	1
Aroclor 1232	ND		ug/kg	39.2	--	1
Aroclor 1242	ND		ug/kg	39.2	--	1
Aroclor 1248	63.3		ug/kg	39.2	--	1
Aroclor 1254	ND		ug/kg	39.2	--	1
Aroclor 1260	ND		ug/kg	39.2	--	1
Aroclor 1262	ND		ug/kg	39.2	--	1
Aroclor 1268	ND		ug/kg	39.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	87		30-150
Decachlorobiphenyl	85		30-150
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	88		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-12	RE	Date Collected:	08/22/11 12:45
Client ID:	126749SE11		Date Received:	08/22/11
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	09/19/11 12:30
Analytical Date:	09/20/11 16:02		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	09/20/11
Percent Solids:	83%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	09/20/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.9	--	1
Aroclor 1221	ND		ug/kg	37.9	--	1
Aroclor 1232	ND		ug/kg	37.9	--	1
Aroclor 1242	ND		ug/kg	37.9	--	1
Aroclor 1248	ND		ug/kg	37.9	--	1
Aroclor 1254	ND		ug/kg	37.9	--	1
Aroclor 1260	ND		ug/kg	37.9	--	1
Aroclor 1262	ND		ug/kg	37.9	--	1
Aroclor 1268	ND		ug/kg	37.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	37		30-150
Decachlorobiphenyl	33		30-150
2,4,5,6-Tetrachloro-m-xylene	38		30-150
Decachlorobiphenyl	43		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-13	Date Collected:	08/22/11 13:03
Client ID:	126750SE12	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 10:40	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.6	--	1
Aroclor 1221	ND		ug/kg	35.6	--	1
Aroclor 1232	ND		ug/kg	35.6	--	1
Aroclor 1242	ND		ug/kg	35.6	--	1
Aroclor 1248	ND		ug/kg	35.6	--	1
Aroclor 1254	ND		ug/kg	35.6	--	1
Aroclor 1260	ND		ug/kg	35.6	--	1
Aroclor 1262	ND		ug/kg	35.6	--	1
Aroclor 1268	ND		ug/kg	35.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	72		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-14	Date Collected:	08/22/11 13:10
Client ID:	126751SE13	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 13:03	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.9	--	1
Aroclor 1221	ND		ug/kg	35.9	--	1
Aroclor 1232	ND		ug/kg	35.9	--	1
Aroclor 1242	ND		ug/kg	35.9	--	1
Aroclor 1248	ND		ug/kg	35.9	--	1
Aroclor 1254	ND		ug/kg	35.9	--	1
Aroclor 1260	ND		ug/kg	35.9	--	1
Aroclor 1262	ND		ug/kg	35.9	--	1
Aroclor 1268	ND		ug/kg	35.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	82		30-150
2,4,5,6-Tetrachloro-m-xylene	84		30-150
Decachlorobiphenyl	94		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-15	Date Collected:	08/22/11 13:58
Client ID:	126754SE14	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 13:19	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	85%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.8	--	1
Aroclor 1221	ND		ug/kg	36.8	--	1
Aroclor 1232	ND		ug/kg	36.8	--	1
Aroclor 1242	ND		ug/kg	36.8	--	1
Aroclor 1248	ND		ug/kg	36.8	--	1
Aroclor 1254	ND		ug/kg	36.8	--	1
Aroclor 1260	ND		ug/kg	36.8	--	1
Aroclor 1262	ND		ug/kg	36.8	--	1
Aroclor 1268	ND		ug/kg	36.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	78		30-150
2,4,5,6-Tetrachloro-m-xylene	84		30-150
Decachlorobiphenyl	91		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-16	Date Collected:	08/22/11 14:18
Client ID:	126755SE15	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/30/11 19:17	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.0	--	1
Aroclor 1221	ND		ug/kg	36.0	--	1
Aroclor 1232	ND		ug/kg	36.0	--	1
Aroclor 1242	ND		ug/kg	36.0	--	1
Aroclor 1254	ND		ug/kg	36.0	--	1
Aroclor 1260	ND		ug/kg	36.0	--	1
Aroclor 1262	ND		ug/kg	36.0	--	1
Aroclor 1268	ND		ug/kg	36.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	56		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	79		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-16	Date Collected:	08/22/11 14:18
Client ID:	126755SE15	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/30/11 19:17	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1248	ND		ug/kg	36.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	56		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	79		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-17	Date Collected:	08/22/11 14:30
Client ID:	126756SE16	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 13:51	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	90%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.0	--	1
Aroclor 1221	ND		ug/kg	35.0	--	1
Aroclor 1232	ND		ug/kg	35.0	--	1
Aroclor 1242	ND		ug/kg	35.0	--	1
Aroclor 1248	ND		ug/kg	35.0	--	1
Aroclor 1254	ND		ug/kg	35.0	--	1
Aroclor 1260	ND		ug/kg	35.0	--	1
Aroclor 1262	ND		ug/kg	35.0	--	1
Aroclor 1268	ND		ug/kg	35.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	82		30-150
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	84		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-18	Date Collected:	08/22/11 14:38
Client ID:	126757SE17	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 14:07	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	92%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	34.4	--	1
Aroclor 1221	ND		ug/kg	34.4	--	1
Aroclor 1232	ND		ug/kg	34.4	--	1
Aroclor 1242	ND		ug/kg	34.4	--	1
Aroclor 1248	ND		ug/kg	34.4	--	1
Aroclor 1254	ND		ug/kg	34.4	--	1
Aroclor 1260	ND		ug/kg	34.4	--	1
Aroclor 1262	ND		ug/kg	34.4	--	1
Aroclor 1268	ND		ug/kg	34.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	89		30-150
2,4,5,6-Tetrachloro-m-xylene	94		30-150
Decachlorobiphenyl	95		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-19	Date Collected:	08/22/11 14:45
Client ID:	126758SE18	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 14:23	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	94%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	33.6	--	1
Aroclor 1221	ND		ug/kg	33.6	--	1
Aroclor 1232	ND		ug/kg	33.6	--	1
Aroclor 1242	ND		ug/kg	33.6	--	1
Aroclor 1248	ND		ug/kg	33.6	--	1
Aroclor 1254	ND		ug/kg	33.6	--	1
Aroclor 1260	ND		ug/kg	33.6	--	1
Aroclor 1262	ND		ug/kg	33.6	--	1
Aroclor 1268	ND		ug/kg	33.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	86		30-150
2,4,5,6-Tetrachloro-m-xylene	92		30-150
Decachlorobiphenyl	94		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-20	Date Collected:	08/22/11 14:50
Client ID:	126759SE2	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 14:38	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	92%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	33.9	--	1
Aroclor 1221	ND		ug/kg	33.9	--	1
Aroclor 1232	ND		ug/kg	33.9	--	1
Aroclor 1242	ND		ug/kg	33.9	--	1
Aroclor 1248	ND		ug/kg	33.9	--	1
Aroclor 1262	ND		ug/kg	33.9	--	1
Aroclor 1268	ND		ug/kg	33.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	44		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	50		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID:	L1113011-20	Date Collected:	08/22/11 14:50
Client ID:	126759SE2	Date Received:	08/22/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/23/11 23:30
Analytical Date:	08/27/11 14:38	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	92%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	308		ug/kg	33.9	--	1
Aroclor 1260	178		ug/kg	33.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	44		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	50		30-150

Project Name: Not Specified

Project Number: 17228

Lab Number: L1113011

Report Date: 09/29/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/27/11 11:59
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/23/11 23:30
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-07,09-11,13-20 Batch: WG486103-1					
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
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	85		30-150
2,4,5,6-Tetrachloro-m-xylene	88		30-150
Decachlorobiphenyl	90		30-150

Project Name: Not Specified

Project Number: 17228

Lab Number: L1113011

Report Date: 09/29/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 09/02/11 16:04
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 09/01/11 19:00
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/02/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 09/02/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 08 Batch: WG487614-1					
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
2,4,5,6-Tetrachloro-m-xylene	112		30-150
Decachlorobiphenyl	107		30-150
2,4,5,6-Tetrachloro-m-xylene	112		30-150
Decachlorobiphenyl	118		30-150

Project Name: Not Specified

Project Number: 17228

Lab Number: L1113011

Report Date: 09/29/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 09/20/11 14:39
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 09/19/11 12:30
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/20/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 09/20/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 12 Batch: WG490761-1					
Aroclor 1016	ND		ug/kg	32.9	--
Aroclor 1221	ND		ug/kg	32.9	--
Aroclor 1232	ND		ug/kg	32.9	--
Aroclor 1242	ND		ug/kg	32.9	--
Aroclor 1248	ND		ug/kg	32.9	--
Aroclor 1254	ND		ug/kg	32.9	--
Aroclor 1260	ND		ug/kg	32.9	--
Aroclor 1262	ND		ug/kg	32.9	--
Aroclor 1268	ND		ug/kg	32.9	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	109		30-150
2,4,5,6-Tetrachloro-m-xylene	56		30-150
Decachlorobiphenyl	90		30-150

Matrix Spike Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-07,09-11,13-20 QC Batch ID: WG486103-4 WG486103-5 QC Sample: L1113011-01 Client ID: 126736SE1												
Aroclor 1016	ND	207	259	125		164	76		40-140	45		50
Aroclor 1260	ND	207	180	87		107	50		40-140	**51**	Q	50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		54		30-150
Decachlorobiphenyl	74		47		30-150
2,4,5,6-Tetrachloro-m-xylene	71		57		30-150
Decachlorobiphenyl	78		58		30-150

Matrix Spike Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-07,09-11,13-20 QC Batch ID: WG486103-6 WG486103-7 QC Sample: L1113011-14 Client ID: 126751SE13												
Aroclor 1016	ND	226	206	91		226	99		40-140	9		50
Aroclor 1260	ND	226	147	65		164	72		40-140	11		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150
Decachlorobiphenyl	77		83		30-150
2,4,5,6-Tetrachloro-m-xylene	81		83		30-150
Decachlorobiphenyl	89		91		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113011
Report Date: 09/29/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-07,09-11,13-20 Batch: WG486103-2 WG486103-3								
Aroclor 1016	88		123		40-140	33		50
Aroclor 1260	84		131		40-140	44		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		107		30-150
Decachlorobiphenyl	90		121		30-150
2,4,5,6-Tetrachloro-m-xylene	92		84		30-150
Decachlorobiphenyl	96		88		30-150

PCB by GC - Westborough Lab Associated sample(s): 08 Batch: WG487614-2 WG487614-3								
Aroclor 1016	118		114		40-140	3		50
Aroclor 1260	133		127		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	122		118		30-150
Decachlorobiphenyl	125		126		30-150
2,4,5,6-Tetrachloro-m-xylene	150		150		30-150
Decachlorobiphenyl	156	Q	161	Q	30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 12 Batch: WG490761-2 WG490761-3								
Aroclor 1016	53		57		40-140	7		50
Aroclor 1260	74		75		40-140	1		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	60		68		30-150
Decachlorobiphenyl	81		70		30-150
2,4,5,6-Tetrachloro-m-xylene	70		80		30-150
Decachlorobiphenyl	92		85		30-150

INORGANICS
&
MISCELLANEOUS

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-01
Client ID: 126736SE1
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 10:10
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-02
Client ID: 126737SE1-D
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 10:10
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-03
Client ID: 126740SE3
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 10:20
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-04
Client ID: 126741SE4
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 10:32
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-05
Client ID: 126742SE5
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 10:53
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-06
Client ID: 126743SE6
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 10:57
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-07
Client ID: 126744SE7
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 11:05
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-08
Client ID: 126745SE8
Sample Location: Not Specified
Matrix: Soil

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-09
Client ID: 126746SE9
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 12:08
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-10
Client ID: 126747SE9-D
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 12:08
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-11
Client ID: 126748SE10
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 12:21
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	08/25/11 13:29	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-12
Client ID: 126749SE11
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 12:45
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83		%	0.10	NA	1	-	08/25/11 15:46	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-13
Client ID: 126750SE12
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 13:03
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	08/25/11 15:46	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-14
Client ID: 126751SE13
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 13:10
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	08/25/11 15:46	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-15
Client ID: 126754SE14
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 13:58
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	08/25/11 15:46	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-16
Client ID: 126755SE15
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 14:18
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	08/25/11 15:46	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-17
Client ID: 126756SE16
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 14:30
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	08/25/11 15:46	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-18
Client ID: 126757SE17
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 14:38
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92		%	0.10	NA	1	-	08/25/11 15:46	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-19
Client ID: 126758SE18
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 14:45
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94		%	0.10	NA	1	-	08/25/11 15:46	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

SAMPLE RESULTS

Lab ID: L1113011-20
Client ID: 126759SE2
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 14:50
Date Received: 08/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92		%	0.10	NA	1	-	08/25/11 15:46	30,2540G	MD

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG486528-1 QC Sample: L1112994-01 Client ID: DUP Sample						
Solids, Total	72	67	%	7		20
General Chemistry - Westborough Lab Associated sample(s): 12-20 QC Batch ID: WG486547-1 QC Sample: L1113016-01 Client ID: DUP Sample						
Solids, Total	88	87	%	1		20

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113011-01A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-01B	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-01C	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-02A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-03A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-04A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-05A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-06A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-07A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-08A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-09A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-10A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-11A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-12A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-13A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-14A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-14B	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-14C	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-15A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-16A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-17A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-18A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-19A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113011-20A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PCB-8082-3540C(14)

Container Comments

*Values in parentheses indicate holding time in days

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113011
Report Date: 09/29/11

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)

Container Comments

L1113011-07A

*Values in parentheses indicate holding time in days

Project Name: Not Specified **Lab Number:** L1113011
Project Number: 17228 **Report Date:** 09/29/11

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.

LFB - Laboratory Fortified Blank: 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.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

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.

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.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL 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.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

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

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 at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to 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.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

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

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name: Not Specified **Lab Number:** L1113011

Project Number: 17228 **Report Date:** 09/29/11

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: Not Specified **Lab Number:** L1113011
Project Number: 17228 **Report Date:** 09/29/11

REFERENCES

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

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

LIMITATION OF LIABILITIES

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

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

Certificate/Approval Program Summary

Last revised September 19, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

ALPHA Job # L1113011

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 8/22/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: ALPHA ANALYTICAL

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228 SOIL

The cost of this analysis will be covered by EH&E Purchase Order # —

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER/Time/Date/Vol.	
1267 36 SE1	SOIL	EPA 8082 W/ SOXLET	8/22/11	1010
1267 37 SE1-D				1010
1267 38 SE1-MS				1010
1267 39 SE1-MSD				1010
1267 40 SE3				1020
1267 41 SE4				1032
1267 42 SE5				1053
1267 43 SE6				1057
1267 44 SE7				1105
1267 45 SE8				1121
1267 46 SE9				1208
1267 47 SE9-D				1208
1267 48 SE10				1221
1267 49 SE11				1245
1267 50 SE12				1303
1267 51 SE13				1380

Special instructions:

☒ Standard turnaround time (SOW TAT) ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient kmyer@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: [signature] of Environmental Health & Engineering, Inc. Date: 8/22/11

Received by: [signature] of (company name) Alpha Date: 8/22/11

Relinquished by: [signature] of (company name) Alpha Date: 8/22/11 17:25

Received by: [signature] of (company name) Alpha Date: 8/22/11 17:25

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Page 1 of ___

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

ALPHA Job # L1113011

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 8/22/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: ALPHA ANALYTICAL

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228 SOIL

The cost of this analysis will be covered by EH&E Purchase Order # —

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER Time/Date/Vol.	
126752 SE13MS	Soil	EPA 8082 W/ SOXLET	8/22/11	1330
126753 SE13MSD				1330
126754 SE14	S			1358
126755 SE15	S			1418
126756 SE16	S			1430
126757 SE17	S			1438
126758 SE18	S			1445
126759 SE2	S			1450

Special instructions:

☒ Standard turnaround time (5day) ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient kmyer@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: [signature] of Environmental Health & Engineering, Inc. Date: 8/22/11

Received by: [signature] of (company name) Alpha Date: 8/22/11

Relinquished by: [signature] of (company name) Alpha Date: 8/22/11 17:25

Received by: [signature] of (company name) Alpha Date: 8/22/11 17:25

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Page 2 of ___

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

ANALYTICAL REPORT

Lab Number:	L1113105
Client:	Environmental Health & Engineering Inc. 117 Fourth Ave Needham, MA 02494
ATTN:	Matt Fragala
Phone:	(781) 247-4300
Project Name:	Not Specified
Project Number:	17228
Report Date:	09/14/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113105-01	126760 SE 19	Not Specified	08/22/11 15:38
L1113105-02	126761 SE 20	Not Specified	08/22/11 15:45
L1113105-03	126762 SE 21	Not Specified	08/23/11 08:45
L1113105-04	126763 SE 21D	Not Specified	08/23/11 08:45
L1113105-05	126766 SE 22	Not Specified	08/23/11 11:10
L1113105-06	126767 SE 23	Not Specified	08/23/11 11:10
L1113105-07	126768 SE 23D	Not Specified	08/23/11 11:10
L1113105-08	126771 SE 24	Not Specified	08/23/11 13:20
L1113105-09	126772 SE 25	Not Specified	08/23/11 13:30
L1113105-10	126773 SE 26	Not Specified	08/23/11 13:38
L1113105-11	126774 SE 27	Not Specified	08/23/11 13:41
L1113105-12	126775 SE 28	Not Specified	08/23/11 13:48
L1113105-13	126776 SE 29	Not Specified	08/23/11 00:00
L1113105-14	126777 SE 30	Not Specified	08/23/11 13:48
L1113105-15	126778 SE 31	Not Specified	08/23/11 13:55
L1113105-16	126779 SE 32	Not Specified	08/23/11 13:59
L1113105-17	126780 SE 33	Not Specified	08/23/11 14:01
L1113105-18	126781 SE 34	Not Specified	08/23/11 14:50
L1113105-19	126782 SE 35	Not Specified	08/23/11 14:55
L1113105-20	126783 SE 36	Not Specified	08/23/11 15:00

Project Name: Not Specified **Lab Number:** L1113105

Project Number: 17228 **Report Date:** 09/14/11

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 through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

Case Narrative

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

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

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

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report replaces the report issued September 2, 2011. At the client's request, the report format has been changed in order to comply with MCP methodologies.

A previously issued final report replaced the partial reports issued September 1 and 2, 2011.

MCP Related Narratives

PCBs

Method Reference:

EPA Test Methods (SW-846) with QC Requirements & Performance Standards for theAnalysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSCCAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

L1113105-10 has elevated detection limits due to the dilution required by matrix interferences encountered

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

Case Narrative (continued)

during the concentration of the sample.

In reference to question G:

L1113105-10: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The surrogate recovery for L1113105-07 is outside the individual acceptance criteria for Decachlorobiphenyl (205%), but within the overall method allowances. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

The WG487378-2/-3 LCS/LCSD RPDs, associated with L1113105-10, are above the MCP acceptance criteria (30%) for Aroclor 1016 (43%) and Aroclor 1260 (35%).

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: Lisa Westerlind

Title: Technical Director/Representative

Date: 09/14/11

ORGANICS

PCBS

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-01	Date Collected:	08/22/11 15:38
Client ID:	126760 SE 19	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 03:02	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	82%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.9	--	1
Aroclor 1221	ND		ug/kg	38.9	--	1
Aroclor 1232	ND		ug/kg	38.9	--	1
Aroclor 1242	ND		ug/kg	38.9	--	1
Aroclor 1248	ND		ug/kg	38.9	--	1
Aroclor 1262	ND		ug/kg	38.9	--	1
Aroclor 1268	ND		ug/kg	38.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	55		30-150
Decachlorobiphenyl	77		30-150

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-01	Date Collected:	08/22/11 15:38
Client ID:	126760 SE 19	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 03:02	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	82%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	430		ug/kg	38.9	--	1
Aroclor 1260	306		ug/kg	38.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	55		30-150
Decachlorobiphenyl	77		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-02	Date Collected:	08/22/11 15:45
Client ID:	126761 SE 20	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 03:14	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.4	--	1
Aroclor 1221	ND		ug/kg	36.4	--	1
Aroclor 1232	ND		ug/kg	36.4	--	1
Aroclor 1242	ND		ug/kg	36.4	--	1
Aroclor 1248	ND		ug/kg	36.4	--	1
Aroclor 1262	ND		ug/kg	36.4	--	1
Aroclor 1268	ND		ug/kg	36.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	80		30-150
2,4,5,6-Tetrachloro-m-xylene	54		30-150
Decachlorobiphenyl	89		30-150

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-02	Date Collected:	08/22/11 15:45
Client ID:	126761 SE 20	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 03:14	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	319		ug/kg	36.4	--	1
Aroclor 1260	269		ug/kg	36.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	80		30-150
2,4,5,6-Tetrachloro-m-xylene	54		30-150
Decachlorobiphenyl	89		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-03	Date Collected:	08/23/11 08:45
Client ID:	126762 SE 21	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 03:26	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.1	--	1
Aroclor 1221	ND		ug/kg	38.1	--	1
Aroclor 1232	ND		ug/kg	38.1	--	1
Aroclor 1242	ND		ug/kg	38.1	--	1
Aroclor 1248	ND		ug/kg	38.1	--	1
Aroclor 1254	ND		ug/kg	38.1	--	1
Aroclor 1260	ND		ug/kg	38.1	--	1
Aroclor 1262	ND		ug/kg	38.1	--	1
Aroclor 1268	ND		ug/kg	38.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	46		30-150
Decachlorobiphenyl	54		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	67		30-150

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-04	Date Collected:	08/23/11 08:45
Client ID:	126763 SE 21D	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 03:39	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.4	--	1
Aroclor 1221	ND		ug/kg	37.4	--	1
Aroclor 1232	ND		ug/kg	37.4	--	1
Aroclor 1242	ND		ug/kg	37.4	--	1
Aroclor 1248	ND		ug/kg	37.4	--	1
Aroclor 1254	ND		ug/kg	37.4	--	1
Aroclor 1260	ND		ug/kg	37.4	--	1
Aroclor 1262	ND		ug/kg	37.4	--	1
Aroclor 1268	ND		ug/kg	37.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	55		30-150
Decachlorobiphenyl	60		30-150
2,4,5,6-Tetrachloro-m-xylene	55		30-150
Decachlorobiphenyl	59		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-05	Date Collected:	08/23/11 11:10
Client ID:	126766 SE 22	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 03:51	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.9	--	1
Aroclor 1221	ND		ug/kg	36.9	--	1
Aroclor 1232	ND		ug/kg	36.9	--	1
Aroclor 1242	ND		ug/kg	36.9	--	1
Aroclor 1248	ND		ug/kg	36.9	--	1
Aroclor 1254	ND		ug/kg	36.9	--	1
Aroclor 1260	ND		ug/kg	36.9	--	1
Aroclor 1262	ND		ug/kg	36.9	--	1
Aroclor 1268	ND		ug/kg	36.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	78		30-150
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	85		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-06	Date Collected:	08/23/11 11:10
Client ID:	126767 SE 23	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 04:03	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	77%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	42.1	--	1
Aroclor 1221	ND		ug/kg	42.1	--	1
Aroclor 1232	ND		ug/kg	42.1	--	1
Aroclor 1242	ND		ug/kg	42.1	--	1
Aroclor 1248	ND		ug/kg	42.1	--	1
Aroclor 1254	ND		ug/kg	42.1	--	1
Aroclor 1260	ND		ug/kg	42.1	--	1
Aroclor 1262	ND		ug/kg	42.1	--	1
Aroclor 1268	ND		ug/kg	42.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	56		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	54		30-150
Decachlorobiphenyl	88		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-07	Date Collected:	08/23/11 11:10
Client ID:	126768 SE 23D	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 04:15	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	77%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
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
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	68		30-150
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	**205**	Q	30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-08	Date Collected:	08/23/11 13:20
Client ID:	126771 SE 24	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 04:28	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	74%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	43.0	--	1
Aroclor 1221	ND		ug/kg	43.0	--	1
Aroclor 1232	ND		ug/kg	43.0	--	1
Aroclor 1242	ND		ug/kg	43.0	--	1
Aroclor 1248	ND		ug/kg	43.0	--	1
Aroclor 1254	ND		ug/kg	43.0	--	1
Aroclor 1260	ND		ug/kg	43.0	--	1
Aroclor 1262	ND		ug/kg	43.0	--	1
Aroclor 1268	ND		ug/kg	43.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	58		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	87		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-09	Date Collected:	08/23/11 13:30
Client ID:	126772 SE 25	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 04:40	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	79%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
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
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	70		30-150
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	77		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-10	Date Collected:	08/23/11 13:38
Client ID:	126773 SE 26	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/31/11 11:07
Analytical Date:	09/02/11 15:45	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	09/01/11
Percent Solids:	82%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/01/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	188	--	5
Aroclor 1221	ND		ug/kg	188	--	5
Aroclor 1232	ND		ug/kg	188	--	5
Aroclor 1242	ND		ug/kg	188	--	5
Aroclor 1248	ND		ug/kg	188	--	5
Aroclor 1254	840		ug/kg	188	--	5
Aroclor 1260	ND		ug/kg	188	--	5
Aroclor 1262	ND		ug/kg	188	--	5
Aroclor 1268	ND		ug/kg	188	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	50		30-150
2,4,5,6-Tetrachloro-m-xylene	42		30-150
Decachlorobiphenyl	45		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-11	Date Collected:	08/23/11 13:41
Client ID:	126774 SE 27	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 05:05	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	82%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	39.6	--	1
Aroclor 1221	ND		ug/kg	39.6	--	1
Aroclor 1232	ND		ug/kg	39.6	--	1
Aroclor 1242	ND		ug/kg	39.6	--	1
Aroclor 1248	ND		ug/kg	39.6	--	1
Aroclor 1254	ND		ug/kg	39.6	--	1
Aroclor 1260	ND		ug/kg	39.6	--	1
Aroclor 1262	ND		ug/kg	39.6	--	1
Aroclor 1268	ND		ug/kg	39.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	41		30-150
Decachlorobiphenyl	49		30-150
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	61		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-12	Date Collected:	08/23/11 13:48
Client ID:	126775 SE 28	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 05:17	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.3	--	1
Aroclor 1221	ND		ug/kg	37.3	--	1
Aroclor 1232	ND		ug/kg	37.3	--	1
Aroclor 1242	ND		ug/kg	37.3	--	1
Aroclor 1248	ND		ug/kg	37.3	--	1
Aroclor 1254	ND		ug/kg	37.3	--	1
Aroclor 1260	ND		ug/kg	37.3	--	1
Aroclor 1262	ND		ug/kg	37.3	--	1
Aroclor 1268	ND		ug/kg	37.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	57		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	69		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-13	Date Collected:	08/23/11 00:00
Client ID:	126776 SE 29	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 05:29	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	83%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.3	--	1
Aroclor 1221	ND		ug/kg	38.3	--	1
Aroclor 1232	ND		ug/kg	38.3	--	1
Aroclor 1242	ND		ug/kg	38.3	--	1
Aroclor 1248	ND		ug/kg	38.3	--	1
Aroclor 1254	ND		ug/kg	38.3	--	1
Aroclor 1260	ND		ug/kg	38.3	--	1
Aroclor 1262	ND		ug/kg	38.3	--	1
Aroclor 1268	ND		ug/kg	38.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	58		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	70		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-14	Date Collected:	08/23/11 13:48
Client ID:	126777 SE 30	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 05:54	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	78%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	41.6	--	1
Aroclor 1221	ND		ug/kg	41.6	--	1
Aroclor 1232	ND		ug/kg	41.6	--	1
Aroclor 1242	ND		ug/kg	41.6	--	1
Aroclor 1248	ND		ug/kg	41.6	--	1
Aroclor 1254	ND		ug/kg	41.6	--	1
Aroclor 1260	ND		ug/kg	41.6	--	1
Aroclor 1262	ND		ug/kg	41.6	--	1
Aroclor 1268	ND		ug/kg	41.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	72		30-150
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	85		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-15	Date Collected:	08/23/11 13:55
Client ID:	126778 SE 31	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 06:06	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	82%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	39.2	--	1
Aroclor 1221	ND		ug/kg	39.2	--	1
Aroclor 1232	ND		ug/kg	39.2	--	1
Aroclor 1242	ND		ug/kg	39.2	--	1
Aroclor 1248	ND		ug/kg	39.2	--	1
Aroclor 1254	ND		ug/kg	39.2	--	1
Aroclor 1260	ND		ug/kg	39.2	--	1
Aroclor 1262	ND		ug/kg	39.2	--	1
Aroclor 1268	ND		ug/kg	39.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	32		30-150
Decachlorobiphenyl	36		30-150
2,4,5,6-Tetrachloro-m-xylene	33		30-150
Decachlorobiphenyl	40		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-16	Date Collected:	08/23/11 13:59
Client ID:	126779 SE 32	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 06:18	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	80%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	41.1	--	1
Aroclor 1221	ND		ug/kg	41.1	--	1
Aroclor 1232	ND		ug/kg	41.1	--	1
Aroclor 1242	ND		ug/kg	41.1	--	1
Aroclor 1248	ND		ug/kg	41.1	--	1
Aroclor 1254	ND		ug/kg	41.1	--	1
Aroclor 1260	ND		ug/kg	41.1	--	1
Aroclor 1262	ND		ug/kg	41.1	--	1
Aroclor 1268	ND		ug/kg	41.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	39		30-150
Decachlorobiphenyl	48		30-150
2,4,5,6-Tetrachloro-m-xylene	40		30-150
Decachlorobiphenyl	60		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-17	Date Collected:	08/23/11 14:01
Client ID:	126780 SE 33	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 06:31	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	76%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
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
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	75		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-18	Date Collected:	08/23/11 14:50
Client ID:	126781 SE 34	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 06:43	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.8	--	1
Aroclor 1221	ND		ug/kg	35.8	--	1
Aroclor 1232	ND		ug/kg	35.8	--	1
Aroclor 1242	ND		ug/kg	35.8	--	1
Aroclor 1254	ND		ug/kg	35.8	--	1
Aroclor 1260	ND		ug/kg	35.8	--	1
Aroclor 1262	ND		ug/kg	35.8	--	1
Aroclor 1268	ND		ug/kg	35.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	79		30-150
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	96		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-18	Date Collected:	08/23/11 14:50
Client ID:	126781 SE 34	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 06:43	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1248	143		ug/kg	35.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	79		30-150
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	96		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-19	Date Collected:	08/23/11 14:55
Client ID:	126782 SE 35	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 06:55	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.5	--	1
Aroclor 1221	ND		ug/kg	36.5	--	1
Aroclor 1232	ND		ug/kg	36.5	--	1
Aroclor 1242	ND		ug/kg	36.5	--	1
Aroclor 1248	ND		ug/kg	36.5	--	1
Aroclor 1254	ND		ug/kg	36.5	--	1
Aroclor 1260	ND		ug/kg	36.5	--	1
Aroclor 1262	ND		ug/kg	36.5	--	1
Aroclor 1268	ND		ug/kg	36.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	32		30-150
Decachlorobiphenyl	34		30-150
2,4,5,6-Tetrachloro-m-xylene	33		30-150
Decachlorobiphenyl	37		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID:	L1113105-20	Date Collected:	08/23/11 15:00
Client ID:	126783 SE 36	Date Received:	08/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/27/11 18:37
Analytical Date:	08/31/11 07:07	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.5	--	1
Aroclor 1221	ND		ug/kg	36.5	--	1
Aroclor 1232	ND		ug/kg	36.5	--	1
Aroclor 1242	ND		ug/kg	36.5	--	1
Aroclor 1248	ND		ug/kg	36.5	--	1
Aroclor 1254	ND		ug/kg	36.5	--	1
Aroclor 1260	ND		ug/kg	36.5	--	1
Aroclor 1262	ND		ug/kg	36.5	--	1
Aroclor 1268	ND		ug/kg	36.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	58		30-150
2,4,5,6-Tetrachloro-m-xylene	51		30-150
Decachlorobiphenyl	64		30-150

Project Name: Not Specified

Project Number: 17228

Lab Number: L1113105

Report Date: 09/14/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/31/11 01:36
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/27/11 18:37
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/30/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/30/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-09,11-20 Batch: WG486884-1					
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
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	78		30-150
2,4,5,6-Tetrachloro-m-xylene	85		30-150
Decachlorobiphenyl	86		30-150

Project Name: Not Specified

Project Number: 17228

Lab Number: L1113105

Report Date: 09/14/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 09/01/11 17:51
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/31/11 11:07
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/01/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 09/01/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 10 Batch: WG487378-1					
Aroclor 1016	ND		ug/kg	32.9	--
Aroclor 1221	ND		ug/kg	32.9	--
Aroclor 1232	ND		ug/kg	32.9	--
Aroclor 1242	ND		ug/kg	32.9	--
Aroclor 1248	ND		ug/kg	32.9	--
Aroclor 1254	ND		ug/kg	32.9	--
Aroclor 1260	ND		ug/kg	32.9	--
Aroclor 1262	ND		ug/kg	32.9	--
Aroclor 1268	ND		ug/kg	32.9	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	74		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	83		30-150

Matrix Spike Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-09,11-20 QC Batch ID: WG486884-4 WG486884-5 QC Sample: L1113105-03 Client ID: 126762 SE 21												
Aroclor 1016	ND	235	157	67		172	74		40-140	9		50
Aroclor 1260	ND	235	183	78		209	89		40-140	13		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	50		61		30-150
Decachlorobiphenyl	54		64		30-150
2,4,5,6-Tetrachloro-m-xylene	49		61		30-150
Decachlorobiphenyl	59		83		30-150

Matrix Spike Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-09,11-20 QC Batch ID: WG486884-6 WG486884-7 QC Sample: L1113105-06 Client ID: 126767 SE 23												
Aroclor 1016	ND	259	329	127		252	98		40-140	27		50
Aroclor 1260	ND	259	226	87		208	81		40-140	8		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	60		62		30-150
Decachlorobiphenyl	71		69		30-150
2,4,5,6-Tetrachloro-m-xylene	58		60		30-150
Decachlorobiphenyl	92		103		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-09,11-20 Batch: WG486884-2 WG486884-3								
Aroclor 1016	111		110		40-140	1		50
Aroclor 1260	78		71		40-140	9		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		69		30-150
Decachlorobiphenyl	77		66		30-150
2,4,5,6-Tetrachloro-m-xylene	105		57		30-150
Decachlorobiphenyl	98		54		30-150

PCB by GC - Westborough Lab Associated sample(s): 10 Batch: WG487378-2 WG487378-3								
Aroclor 1016	73		113		40-140	43		50
Aroclor 1260	52		74		40-140	35		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	45		53		30-150
Decachlorobiphenyl	57		69		30-150
2,4,5,6-Tetrachloro-m-xylene	64		65		30-150
Decachlorobiphenyl	73		81		30-150

INORGANICS
&
MISCELLANEOUS

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-01
Client ID: 126760 SE 19
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 15:38
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	08/26/11 15:30	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-02
Client ID: 126761 SE 20
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/22/11 15:45
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	08/26/11 15:30	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-03
Client ID: 126762 SE 21
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 08:45
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	08/26/11 15:30	30,2540G	MD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-04
Client ID: 126763 SE 21D
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 08:45
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-05
Client ID: 126766 SE 22
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 11:10
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-06
Client ID: 126767 SE 23
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 11:10
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-07
Client ID: 126768 SE 23D
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 11:10
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-08
Client ID: 126771 SE 24
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 13:20
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-09
Client ID: 126772 SE 25
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 13:30
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-10
Client ID: 126773 SE 26
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 13:38
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-11
Client ID: 126774 SE 27
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 13:41
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-12
Client ID: 126775 SE 28
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 13:48
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-13
Client ID: 126776 SE 29
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 00:00
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-14
Client ID: 126777 SE 30
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 13:48
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-15
Client ID: 126778 SE 31
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 13:55
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-16
Client ID: 126779 SE 32
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 13:59
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-17
Client ID: 126780 SE 33
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 14:01
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-18
Client ID: 126781 SE 34
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 14:50
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-19
Client ID: 126782 SE 35
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 14:55
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

SAMPLE RESULTS

Lab ID: L1113105-20
Client ID: 126783 SE 36
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/23/11 15:00
Date Received: 08/23/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	08/26/11 21:44	30,2540G	RD

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG486763-1 QC Sample: L1113086-08 Client ID: DUP Sample						
Solids, Total	93	93	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 04-20 QC Batch ID: WG486802-1 QC Sample: L1113105-06 Client ID: 126767 SE 23						
Solids, Total	77	77	%	0		20

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113105-01A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-02A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-03A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-03B	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-03C	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-04A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-05A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-06A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-06B	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-06C	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-07A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-08A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-09A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-10A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-11A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-12A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-13A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-14A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-15A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-16A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-17A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-18A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-19A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)
L1113105-20A	Amber 120ml unpreserved	A	N/A	5	Y	Absent	TS(7),PCB-8082-3540C(14)

*Values in parentheses indicate holding time in days

Project Name: Not Specified **Lab Number:** L1113105
Project Number: 17228 **Report Date:** 09/14/11

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.

LFB - Laboratory Fortified Blank: 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.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

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.

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.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL 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.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

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

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 at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to 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.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

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

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113105
Report Date: 09/14/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113105
Report Date: 09/14/11

REFERENCES

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

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

LIMITATION OF LIABILITIES

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

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

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

ALPHA Job # L1113705

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 8/25/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: Alpha Analytical

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228 SOIL

The cost of this analysis will be covered by EH&E Purchase Order #

For EH & E Data Coordinator - URGENT DATA ☐

	SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.	
126760	SE19	Soil	EPA 8260 w/ Soxlet	8/22/11	1538
126761	SE20			8/22/11	1545
126762	SE21			8/23/11	0845
126763	SE21D				0845
126764	SE21MS				0900
126765	SE21MSD				1110
126766	SE22				1110
126767	SE23				1110
126768	SE23D				1110
126769	SE23MS				1118
126770	SE23MSD				1143
126771	SE24				1320
126772	SE25				1330
126773	SE26				1338
126774	SE27				1341
126775	SE28				1348

Special instructions: (5 day)

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☐ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient Kmeyer@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 8/23/11

Received by: _____ of (company name) Alpha Date: 8-23-11

Relinquished by: _____ of (company name) Alpha Date: 8-23-11

Received by: _____ of (company name) Alpha Date: 8/23/11 1715

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Page 1 of 2

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

ALPHA lab # L1113100

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 8/23/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: Alpha Analytical

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228 SOIL

The cost of this analysis will be covered by EH&E Purchase Order # _____

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
126776 SE29	Soil	EPA 8082 w/ soxlet	8/23/11
126777 SE30			1348
126778 SE31			1355
126779 SE32			1359
126780 SE33			1401
126781 SE34			1450
126782 SE35			1455
126783 SE36			1500

Special instructions: (5 day)

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ RETURN SAMPLES ☐ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient ~~Kmeyer~~ kmyer@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: [signature] of Environmental Health & Engineering, Inc. Date: 8/23/11

Received by: [signature] of (company name) Alpha Date: 8/23/11

Relinquished by: [signature] of (company name) Alpha Date: 8/23/11

Received by: [signature] of (company name) Alpha Date: 8/23/11 1715

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Page 2 of 2

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L1113187
Client:	Environmental Health & Engineering Inc. 117 Fourth Ave Needham, MA 02494
ATTN:	Matt Fragala
Phone:	(781) 247-4300
Project Name:	Not Specified
Project Number:	17228
Report Date:	09/07/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113187-01	126816,17,18,19,20	Not Specified	08/24/11 14:00

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Case Narrative

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

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

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

For additional information, please contact Client Services at 800-624-9220.

Semivolatile Organics

The WG487126-2/-3 LCS/LCSD RPD, associated with L1113187-01, is above the acceptance criteria for 2,4-Dinitrophenol (64%); however, the individual LCS/LCSD recoveries are within method limits.

PCB

The surrogate recovery for the WG487125-2 LCS, associated with L1113187-01, is outside the individual acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (29%), but within the overall method allowances. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

Metals

L1113187-01 has elevated detection limits for all analytes, except Mercury, due to the dilution required by the

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Case Narrative (continued)

sample matrix.

The WG486852-4 MS recovery, performed on L1113187-01, is above the acceptance criteria for Mercury (136%). A post digestion spike was performed with an acceptable recovery of 101%.

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: 09/07/11

ORGANICS

VOLATILES

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113187
Report Date: 09/07/11

SAMPLE RESULTS

Lab ID:	L1113187-01	Date Collected:	08/24/11 14:00
Client ID:	126816,17,18,19,20	Date Received:	08/24/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260B		
Analytical Date:	09/02/11 10:25		
Analyst:	BN		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.78	--	1
1,2-Dichloropropane	ND		ug/kg	2.7	--	1
Dibromochloromethane	ND		ug/kg	0.78	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.78	--	1
Chlorobenzene	ND		ug/kg	0.78	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.78	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	--	1
Bromodichloromethane	ND		ug/kg	0.78	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
1,1-Dichloropropene	ND		ug/kg	3.9	--	1
Bromoform	ND		ug/kg	3.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Benzene	ND		ug/kg	0.78	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	0.78	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.78	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
Trichloroethene	ND		ug/kg	0.78	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.9	--	1

Project Name: Not Specified **Lab Number:** L1113187

Project Number: 17228 **Report Date:** 09/07/11

SAMPLE RESULTS

Lab ID: L1113187-01 Date Collected: 08/24/11 14:00

Client ID: 126816,17,18,19,20 Date Received: 08/24/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.78	--	1
Dibromomethane	ND		ug/kg	7.8	--	1
1,4-Dichlorobutane	ND		ug/kg	7.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	7.8	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	7.8	--	1
Acetone	ND		ug/kg	28	--	1
Carbon disulfide	ND		ug/kg	7.8	--	1
2-Butanone	ND		ug/kg	7.8	--	1
Vinyl acetate	ND		ug/kg	7.8	--	1
4-Methyl-2-pentanone	ND		ug/kg	7.8	--	1
2-Hexanone	ND		ug/kg	7.8	--	1
Ethyl methacrylate	ND		ug/kg	7.8	--	1
Acrylonitrile	ND		ug/kg	3.1	--	1
Bromochloromethane	ND		ug/kg	3.9	--	1
Tetrahydrofuran	ND		ug/kg	16	--	1
2,2-Dichloropropane	ND		ug/kg	3.9	--	1
1,2-Dibromoethane	ND		ug/kg	3.1	--	1
1,3-Dichloropropane	ND		ug/kg	3.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Bromobenzene	ND		ug/kg	3.9	--	1
n-Butylbenzene	ND		ug/kg	0.78	--	1
sec-Butylbenzene	ND		ug/kg	0.78	--	1
tert-Butylbenzene	ND		ug/kg	3.9	--	1
o-Chlorotoluene	ND		ug/kg	3.9	--	1
p-Chlorotoluene	ND		ug/kg	3.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1
Isopropylbenzene	ND		ug/kg	0.78	--	1
p-Isopropyltoluene	ND		ug/kg	0.78	--	1
Naphthalene	ND		ug/kg	3.9	--	1
n-Propylbenzene	ND		ug/kg	0.78	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.9	--	1

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113187
Report Date: 09/07/11

SAMPLE RESULTS

Lab ID: L1113187-01
Client ID: 126816,17,18,19,20
Sample Location: Not Specified
Date Collected: 08/24/11 14:00
Date Received: 08/24/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.9	--	1
Ethyl ether	ND		ug/kg	3.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	122		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	120		70-130

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/02/11 09:50
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01 Batch: WG487742-3					
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: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/02/11 09:50
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01 Batch: WG487742-3					
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	--
1,4-Dichlorobutane	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	36	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
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	--

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/02/11 09:50
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01 Batch: WG487742-3					
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	--
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	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01 Batch: WG487742-1 WG487742-2								
Chlorobenzene	91		102		75-125	11		30
Benzene	96		106		75-125	10		30
Toluene	90		101		75-125	12		30
1,1-Dichloroethene	98		106		65-135	8		30
Trichloroethene	96		105		75-125	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		106		70-130
Toluene-d8	94		104		70-130
4-Bromofluorobenzene	95		103		70-130
Dibromofluoromethane	95		107		70-130

SEMIVOLATILES

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

SAMPLE RESULTS

Lab ID:	L1113187-01	Date Collected:	08/24/11 14:00
Client ID:	126816,17,18,19,20	Date Received:	08/24/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270C	Extraction Date:	08/31/11 03:59
Analytical Date:	08/31/11 16:26		
Analyst:	RC		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	370		ug/kg	300	--	1
Benzidine	ND		ug/kg	1300	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	380	--	1
Hexachlorobenzene	ND		ug/kg	230	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	380	--	1
2-Chloronaphthalene	ND		ug/kg	380	--	1
1,2-Dichlorobenzene	ND		ug/kg	380	--	1
1,3-Dichlorobenzene	ND		ug/kg	380	--	1
1,4-Dichlorobenzene	ND		ug/kg	380	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	380	--	1
2,4-Dinitrotoluene	ND		ug/kg	380	--	1
2,6-Dinitrotoluene	ND		ug/kg	380	--	1
Azobenzene	ND		ug/kg	380	--	1
Fluoranthene	3800		ug/kg	230	--	1
4-Chlorophenyl phenyl ether	ND		ug/kg	380	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	380	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	460	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	380	--	1
Hexachlorobutadiene	ND		ug/kg	380	--	1
Hexachlorocyclopentadiene	ND		ug/kg	1100	--	1
Hexachloroethane	ND		ug/kg	300	--	1
Isophorone	ND		ug/kg	380	--	1
Naphthalene	ND		ug/kg	380	--	1
Nitrobenzene	ND		ug/kg	380	--	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	300	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	380	--	1
Butyl benzyl phthalate	ND		ug/kg	380	--	1
Di-n-butylphthalate	ND		ug/kg	380	--	1
Di-n-octylphthalate	ND		ug/kg	380	--	1
Diethyl phthalate	ND		ug/kg	380	--	1
Dimethyl phthalate	ND		ug/kg	380	--	1

Project Name: Not Specified **Lab Number:** L1113187

Project Number: 17228 **Report Date:** 09/07/11

SAMPLE RESULTS

Lab ID: L1113187-01 Date Collected: 08/24/11 14:00

Client ID: 126816,17,18,19,20 Date Received: 08/24/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	1700		ug/kg	230	--	1
Benzo(a)pyrene	1400		ug/kg	300	--	1
Benzo(b)fluoranthene	2000		ug/kg	230	--	1
Benzo(k)fluoranthene	850		ug/kg	230	--	1
Chrysene	1500		ug/kg	230	--	1
Acenaphthylene	ND		ug/kg	300	--	1
Anthracene	560		ug/kg	230	--	1
Benzo(ghi)perylene	930		ug/kg	300	--	1
Fluorene	ND		ug/kg	380	--	1
Phenanthrene	2300		ug/kg	230	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	230	--	1
Indeno(1,2,3-cd)Pyrene	980		ug/kg	300	--	1
Pyrene	2900		ug/kg	230	--	1
Aniline	ND		ug/kg	460	--	1
4-Chloroaniline	ND		ug/kg	380	--	1
1-Methylnaphthalene	ND		ug/kg	380	--	1
2-Nitroaniline	ND		ug/kg	380	--	1
3-Nitroaniline	ND		ug/kg	380	--	1
4-Nitroaniline	ND		ug/kg	380	--	1
Dibenzofuran	ND		ug/kg	380	--	1
2-Methylnaphthalene	ND		ug/kg	460	--	1
n-Nitrosodimethylamine	ND		ug/kg	760	--	1
2,4,6-Trichlorophenol	ND		ug/kg	230	--	1
P-Chloro-M-Cresol	ND		ug/kg	380	--	1
2-Chlorophenol	ND		ug/kg	380	--	1
2,4-Dichlorophenol	ND		ug/kg	380	--	1
2,4-Dimethylphenol	ND		ug/kg	380	--	1
2-Nitrophenol	ND		ug/kg	840	--	1
4-Nitrophenol	ND		ug/kg	530	--	1
2,4-Dinitrophenol	ND		ug/kg	1800	--	1
4,6-Dinitro-o-cresol	ND		ug/kg	990	--	1
Pentachlorophenol	ND		ug/kg	300	--	1
Phenol	ND		ug/kg	380	--	1
2-Methylphenol	ND		ug/kg	380	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	530	--	1
2,4,5-Trichlorophenol	ND		ug/kg	380	--	1
Benzoic Acid	ND		ug/kg	1200	--	1
Benzyl Alcohol	ND		ug/kg	380	--	1
Carbazole	430		ug/kg	380	--	1

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113187
Report Date: 09/07/11

SAMPLE RESULTS

Lab ID: L1113187-01
Client ID: 126816,17,18,19,20
Sample Location: Not Specified
Date Collected: 08/24/11 14:00
Date Received: 08/24/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Pyridine	ND		ug/kg	1500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	93		0-136
4-Terphenyl-d14	87		18-120

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/31/11 15:12
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/31/11 03:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG487126-1					
Acenaphthene	ND		ug/kg	270	--
Benzidine	ND		ug/kg	1100	--
1,2,4-Trichlorobenzene	ND		ug/kg	330	--
Hexachlorobenzene	ND		ug/kg	200	--
Bis(2-chloroethyl)ether	ND		ug/kg	330	--
2-Chloronaphthalene	ND		ug/kg	330	--
1,2-Dichlorobenzene	ND		ug/kg	330	--
1,3-Dichlorobenzene	ND		ug/kg	330	--
1,4-Dichlorobenzene	ND		ug/kg	330	--
3,3'-Dichlorobenzidine	ND		ug/kg	330	--
2,4-Dinitrotoluene	ND		ug/kg	330	--
2,6-Dinitrotoluene	ND		ug/kg	330	--
Azobenzene	ND		ug/kg	330	--
Fluoranthene	ND		ug/kg	200	--
4-Chlorophenyl phenyl ether	ND		ug/kg	330	--
4-Bromophenyl phenyl ether	ND		ug/kg	330	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	400	--
Bis(2-chloroethoxy)methane	ND		ug/kg	330	--
Hexachlorobutadiene	ND		ug/kg	330	--
Hexachlorocyclopentadiene	ND		ug/kg	930	--
Hexachloroethane	ND		ug/kg	270	--
Isophorone	ND		ug/kg	330	--
Naphthalene	ND		ug/kg	330	--
Nitrobenzene	ND		ug/kg	330	--
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	270	--
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	330	--
Butyl benzyl phthalate	ND		ug/kg	330	--
Di-n-butylphthalate	ND		ug/kg	330	--
Di-n-octylphthalate	ND		ug/kg	330	--
Diethyl phthalate	ND		ug/kg	330	--
Dimethyl phthalate	ND		ug/kg	330	--

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/31/11 15:12
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/31/11 03:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG487126-1					
Benzo(a)anthracene	ND		ug/kg	200	--
Benzo(a)pyrene	ND		ug/kg	270	--
Benzo(b)fluoranthene	ND		ug/kg	200	--
Benzo(k)fluoranthene	ND		ug/kg	200	--
Chrysene	ND		ug/kg	200	--
Acenaphthylene	ND		ug/kg	270	--
Anthracene	ND		ug/kg	200	--
Benzo(ghi)perylene	ND		ug/kg	270	--
Fluorene	ND		ug/kg	330	--
Phenanthrene	ND		ug/kg	200	--
Dibenzo(a,h)anthracene	ND		ug/kg	200	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	270	--
Pyrene	ND		ug/kg	200	--
Aniline	ND		ug/kg	400	--
4-Chloroaniline	ND		ug/kg	330	--
1-Methylnaphthalene	ND		ug/kg	330	--
2-Nitroaniline	ND		ug/kg	330	--
3-Nitroaniline	ND		ug/kg	330	--
4-Nitroaniline	ND		ug/kg	330	--
Dibenzofuran	ND		ug/kg	330	--
2-Methylnaphthalene	ND		ug/kg	400	--
n-Nitrosodimethylamine	ND		ug/kg	670	--
2,4,6-Trichlorophenol	ND		ug/kg	200	--
P-Chloro-M-Cresol	ND		ug/kg	330	--
2-Chlorophenol	ND		ug/kg	330	--
2,4-Dichlorophenol	ND		ug/kg	330	--
2,4-Dimethylphenol	ND		ug/kg	330	--
2-Nitrophenol	ND		ug/kg	730	--
4-Nitrophenol	ND		ug/kg	470	--
2,4-Dinitrophenol	ND		ug/kg	1600	--
4,6-Dinitro-o-cresol	ND		ug/kg	870	--

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/31/11 15:12
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/31/11 03:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG487126-1					
Pentachlorophenol	ND		ug/kg	270	--
Phenol	ND		ug/kg	330	--
2-Methylphenol	ND		ug/kg	330	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	470	--
2,4,5-Trichlorophenol	ND		ug/kg	330	--
Benzoic Acid	ND		ug/kg	1100	--
Benzyl Alcohol	ND		ug/kg	330	--
Carbazole	ND		ug/kg	330	--
Pyridine	ND		ug/kg	1300	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	82		0-136
4-Terphenyl-d14	85		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG487126-2 WG487126-3								
Acenaphthene	83		79		31-137	5		50
1,2,4-Trichlorobenzene	77		83		38-107	8		50
2-Chloronaphthalene	96		92		40-140	4		50
1,2-Dichlorobenzene	71		76		40-140	7		50
1,4-Dichlorobenzene	72		73		28-104	1		50
2,4-Dinitrotoluene	81		76		28-89	6		50
2,6-Dinitrotoluene	72		68		40-140	6		50
Fluoranthene	92		88		40-140	4		50
4-Chlorophenyl phenyl ether	89		82		40-140	8		50
n-Nitrosodi-n-propylamine	60		58		41-126	3		50
Butyl benzyl phthalate	85		80		40-140	6		50
Anthracene	98		98		40-140	0		50
Pyrene	88		84		35-142	5		50
P-Chloro-M-Cresol	76		72		26-103	5		50
2-Chlorophenol	76		79		25-102	4		50
2-Nitrophenol	65		68		30-130	5		50
4-Nitrophenol	72		70		11-114	3		50
2,4-Dinitrophenol	17		33		4-130	**64**	Q	50
Pentachlorophenol	102		91		17-109	11		50
Phenol	65		64		31-133	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG487126-2 WG487126-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	79		76		25-120
Phenol-d6	76		72		10-120
Nitrobenzene-d5	78		75		23-120
2-Fluorobiphenyl	80		76		30-120
2,4,6-Tribromophenol	102		93		0-136
4-Terphenyl-d14	89		82		18-120

PCBS

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113187
Report Date: 09/07/11

SAMPLE RESULTS

Lab ID:	L1113187-01	Date Collected:	08/24/11 14:00
Client ID:	126816,17,18,19,20	Date Received:	08/24/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082	Extraction Date:	08/31/11 03:56
Analytical Date:	08/31/11 21:12	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/31/11
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/31/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.2	--	1
Aroclor 1221	ND		ug/kg	38.2	--	1
Aroclor 1232	ND		ug/kg	38.2	--	1
Aroclor 1248	ND		ug/kg	38.2	--	1
Aroclor 1254	57.9		ug/kg	38.2	--	1
Aroclor 1260	ND		ug/kg	38.2	--	1
Aroclor 1262	ND		ug/kg	38.2	--	1
Aroclor 1268	ND		ug/kg	38.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	58		30-150
Decachlorobiphenyl	75		30-150
2,4,5,6-Tetrachloro-m-xylene	58		30-150
Decachlorobiphenyl	145		30-150

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

SAMPLE RESULTS

Lab ID:	L1113187-01	Date Collected:	08/24/11 14:00
Client ID:	126816,17,18,19,20	Date Received:	08/24/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082	Extraction Date:	08/31/11 03:56
Analytical Date:	08/31/11 21:12	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/31/11
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/31/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1242	56.4		ug/kg	38.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	58		30-150
Decachlorobiphenyl	75		30-150
2,4,5,6-Tetrachloro-m-xylene	58		30-150
Decachlorobiphenyl	145		30-150

Project Name: Not Specified

Project Number: 17228

Lab Number: L1113187

Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/31/11 21:24
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 08/31/11 03:56
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/31/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/31/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01 Batch: WG487125-1					
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
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	72		30-150
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	81		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01 Batch: WG487125-2 WG487125-3								
Aroclor 1016	58		77		40-140	28		50
Aroclor 1260	67		74		40-140	10		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	32		77		30-150
Decachlorobiphenyl	74		80		30-150
2,4,5,6-Tetrachloro-m-xylene	29	Q	75		30-150
Decachlorobiphenyl	83		83		30-150

PESTICIDES

Project Name: Not Specified
Project Number: 17228
Lab Number: L1113187
Report Date: 09/07/11

SAMPLE RESULTS

Lab ID:	L1113187-01	Date Collected:	08/24/11 14:00
Client ID:	126816,17,18,19,20	Date Received:	08/24/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1, 8081	Extraction Date:	08/31/11 00:25
Analytical Date:	08/31/11 18:03	Cleanup Method1:	EPA 3620B
Analyst:	BW	Cleanup Date1:	08/31/11
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Pesticides by GC - Westborough Lab						
4,4'-DDT	21.8		ug/kg	16.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

SAMPLE RESULTS

Lab ID:	L1113187-01	Date Collected:	08/24/11 14:00
Client ID:	126816,17,18,19,20	Date Received:	08/24/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1, 8081	Extraction Date:	08/31/11 00:25
Analytical Date:	08/31/11 18:03	Cleanup Method1:	EPA 3620B
Analyst:	BW	Cleanup Date1:	08/31/11
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	8.82	--	1
Lindane	ND		ug/kg	3.68	--	1
Alpha-BHC	ND		ug/kg	3.68	--	1
Beta-BHC	ND		ug/kg	8.82	--	1
Heptachlor	ND		ug/kg	4.41	--	1
Aldrin	ND		ug/kg	8.82	--	1
Heptachlor epoxide	ND		ug/kg	16.5	--	1
Endrin	ND		ug/kg	3.68	--	1
Endrin aldehyde	ND		ug/kg	11.0	--	1
Endrin ketone	ND		ug/kg	8.82	--	1
Dieldrin	ND		ug/kg	5.51	--	1
4,4'-DDE	ND		ug/kg	8.82	--	1
4,4'-DDD	ND		ug/kg	8.82	--	1
Endosulfan I	ND		ug/kg	8.82	--	1
Endosulfan II	ND		ug/kg	8.82	--	1
Endosulfan sulfate	ND		ug/kg	3.68	--	1
Methoxychlor	ND		ug/kg	16.5	--	1
Toxaphene	ND		ug/kg	165	--	1
Chlordane	ND		ug/kg	71.7	--	1
cis-Chlordane	ND		ug/kg	11.0	--	1
trans-Chlordane	ND		ug/kg	11.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1, 8081
Analytical Date: 08/31/11 18:15
Analyst: BW

Extraction Method: EPA 3546
Extraction Date: 08/31/11 00:25
Cleanup Method1: EPA 3620B
Cleanup Date1: 08/31/11

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG487116-1					
Delta-BHC	ND		ug/kg	8.00	--
Lindane	ND		ug/kg	3.33	--
Alpha-BHC	ND		ug/kg	3.33	--
Beta-BHC	ND		ug/kg	8.00	--
Heptachlor	ND		ug/kg	4.00	--
Aldrin	ND		ug/kg	8.00	--
Heptachlor epoxide	ND		ug/kg	15.0	--
Endrin	ND		ug/kg	3.33	--
Endrin aldehyde	ND		ug/kg	10.0	--
Endrin ketone	ND		ug/kg	8.00	--
Dieldrin	ND		ug/kg	5.00	--
4,4'-DDE	ND		ug/kg	8.00	--
4,4'-DDD	ND		ug/kg	8.00	--
4,4'-DDT	ND		ug/kg	15.0	--
Endosulfan I	ND		ug/kg	8.00	--
Endosulfan II	ND		ug/kg	8.00	--
Endosulfan sulfate	ND		ug/kg	3.33	--
Methoxychlor	ND		ug/kg	15.0	--
Toxaphene	ND		ug/kg	150	--
Chlordane	ND		ug/kg	65.0	--
cis-Chlordane	ND		ug/kg	10.0	--
trans-Chlordane	ND		ug/kg	10.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	52		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG487116-2 WG487116-3								
Delta-BHC	86		100		30-150	15		30
Lindane	90		106		30-150	16		30
Alpha-BHC	89		107		30-150	18		30
Beta-BHC	87		102		30-150	16		30
Heptachlor	90		108		30-150	18		30
Aldrin	84		99		30-150	16		30
Heptachlor epoxide	84		98		30-150	15		30
Endrin	97		113		30-150	15		30
Endrin aldehyde	71		79		30-150	11		30
Endrin ketone	76		86		30-150	12		30
Dieldrin	87		101		30-150	15		30
4,4'-DDE	82		96		30-150	16		30
4,4'-DDD	85		98		30-150	14		30
4,4'-DDT	98		114		30-150	15		30
Endosulfan I	84		99		30-150	16		30
Endosulfan II	86		97		30-150	12		30
Endosulfan sulfate	78		90		30-150	14		30
Methoxychlor	94		107		30-150	13		30
cis-Chlordane	82		95		30-150	15		30
trans-Chlordane	89		102		30-150	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG487116-2 WG487116-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		92		30-150	A
Decachlorobiphenyl	61		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		83		30-150	B
Decachlorobiphenyl	54		65		30-150	B

METALS

Project Name:	Not Specified	**Lab Number:**	L1113187
Project Number:	17228	**Report Date:**	09/07/11

SAMPLE RESULTS

Lab ID:	L1113187-01	Date Collected:	08/24/11 14:00
Client ID:	126816,17,18,19,20	Date Received:	08/24/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	6.4		mg/kg	0.87	--	2	08/31/11 09:17	09/01/11 09:50	EPA 3050B	1,6010B	MG
Barium, Total	19		mg/kg	0.87	--	2	08/31/11 09:17	09/01/11 09:50	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.87	--	2	08/31/11 09:17	09/01/11 09:50	EPA 3050B	1,6010B	MG
Chromium, Total	10		mg/kg	0.87	--	2	08/31/11 09:17	09/01/11 09:50	EPA 3050B	1,6010B	MG
Lead, Total	45		mg/kg	4.4	--	2	08/31/11 09:17	09/01/11 09:50	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	--	1	08/26/11 18:30	08/27/11 13:03	EPA 7471A	1,7471A	JP
Selenium, Total	ND		mg/kg	1.7	--	2	08/31/11 09:17	09/01/11 09:50	EPA 3050B	1,6010B	MG
Silver, Total	ND		mg/kg	0.87	--	2	08/31/11 09:17	09/01/11 09:50	EPA 3050B	1,6010B	MG

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG486852-1										
Mercury, Total	ND		mg/kg	0.08	--	1	08/26/11 18:30	08/27/11 12:59	1,7471A	JP

Prep Information

Digestion Method: EPA 7471A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG487202-1										
Arsenic, Total	ND		mg/kg	0.40	--	1	08/31/11 09:17	09/01/11 09:38	1,6010B	MG
Barium, Total	ND		mg/kg	0.40	--	1	08/31/11 09:17	09/01/11 09:38	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.40	--	1	08/31/11 09:17	09/01/11 09:38	1,6010B	MG
Chromium, Total	ND		mg/kg	0.40	--	1	08/31/11 09:17	09/01/11 09:38	1,6010B	MG
·ad, Total	ND		mg/kg	2.0	--	1	08/31/11 09:17	09/01/11 09:38	1,6010B	MG
,enium, Total	ND		mg/kg	0.80	--	1	08/31/11 09:17	09/01/11 09:38	1,6010B	MG
Silver, Total	ND		mg/kg	0.40	--	1	08/31/11 09:17	09/01/11 09:38	1,6010B	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG486852-2 SRM Lot Number: 0518-10-02								
Mercury, Total	105		-		67-133	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG487202-2								
Arsenic, Total	100		-		75-125	-		
Barium, Total	97		-		75-125	-		
Cadmium, Total	99		-		75-125	-		
Chromium, Total	97		-		75-125	-		
Lead, Total	99		-		75-125	-		
Selenium, Total	97		-		75-125	-		
Silver, Total	100		-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486852-4 QC Sample: L1113187-01 Client ID: 126816,17,18,19,20												
Mercury, Total	ND	0.17	0.23	136	Q	-	-		70-130	-		35
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG487202-4 QC Sample: L1113187-01 Client ID: 126816,17,18,19,20												
Arsenic, Total	6.4	10.5	15	82		-	-		75-125	-		35
Barium, Total	19	174	170	86		-	-		75-125	-		35
Cadmium, Total	ND	4.45	4.1	92		-	-		75-125	-		35
Chromium, Total	10	17.4	25	86		-	-		75-125	-		35
Lead, Total	45	44.5	80	79		-	-		75-125	-		35
Selenium, Total	ND	10.5	9.4	90		-	-		75-125	-		35
Silver, Total	ND	26.2	24	92		-	-		75-125	-		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486852-3 QC Sample: L1113187-01 Client ID: 126816,17,18,19,20						
Mercury, Total	ND	ND	mg/kg	NC		35
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG487202-3 QC Sample: L1113187-01 Client ID: 126816,17,18,19,20						
Arsenic, Total	6.4	6.2	mg/kg	3		35
Barium, Total	19	18	mg/kg	5		35
Cadmium, Total	ND	ND	mg/kg	NC		35
Chromium, Total	10	10	mg/kg	0		35
Lead, Total	45	42	mg/kg	7		35
Selenium, Total	ND	ND	mg/kg	NC		35
Silver, Total	ND	ND	mg/kg	NC		35

INORGANICS
&
MISCELLANEOUS

Project Name:	Not Specified	**Lab Number:**	L1113187
Project Number:	17228	**Report Date:**	09/07/11

SAMPLE RESULTS

Lab ID:	L1113187-01	Date Collected:	08/24/11 14:00
Client ID:	126816,17,18,19,20	Date Received:	08/24/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	08/30/11 11:40	1,1030	TL

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

SAMPLE RESULTS

Lab ID: L1113187-01
Client ID: 126816,17,18,19,20
Sample Location: Not Specified
Matrix: Soil

Date Collected: 08/24/11 14:00
Date Received: 08/24/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	08/30/11 13:43	30,2540G	MD
pH	5.8		SU	-	NA	1	-	08/25/11 01:00	1,9045C	KK
Cyanide, Reactive	ND		mg/kg	10	--	1	08/27/11 11:35	08/27/11 13:02	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	08/27/11 11:35	08/27/11 13:10	1,7.3	TL

Project Name:

Project Number: 17228

Lab Number: L1113187

Report Date: 09/07/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG486845-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	08/27/11 11:35	08/27/11 13:01	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG486846-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	08/27/11 11:35	08/27/11 13:10	1,7.3	TL

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 08/24/2011 21:46

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113187-01A	Vial MeOH preserved	A	N/A	3.2	Y	Absent	8260HLW(14)
L1113187-01B	Vial water preserved	A	N/A	3.2	Y	Absent	8260HLW(14)
L1113187-01C	Vial water preserved	A	N/A	3.2	Y	Absent	8260HLW(14)
L1113187-01D	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	8270TCL(14),PCB-8082(14),PEST-8081(14)
L1113187-01E	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	IGNIT-1030(14),REACTS(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TS(7),PB-TI(180),PH-9045(1),SE-TI(180),HG-T(28),REACTCN(14),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: Not Specified **Lab Number:** L1113187
Project Number: 17228 **Report Date:** 09/07/11

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.

LFB - Laboratory Fortified Blank: 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.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

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.

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.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL 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.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

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

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 at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to 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.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

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

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Project Name: Not Specified **Lab Number:** L1113187
Project Number: 17228 **Report Date:** 09/07/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

REFERENCES

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

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

LIMITATION OF LIABILITIES

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

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.

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Project Number: 17228

Lab Number: L1113187

Report Date: 09/07/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG486349-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG486845-2								
Cyanide, Reactive	50		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG486846-2								
Sulfide, Reactive	108		-		60-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 17228

Lab Number: L1113187
Report Date: 09/07/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486349-2 QC Sample: L1113161-01 Client ID: DUP Sample						
pH	7.5	7.6	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486845-3 QC Sample: L1113321-21 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486846-3 QC Sample: L1113321-21 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486989-1 QC Sample: L1113187-01 Client ID: 126816,17,18,19,20						
Solids, Total	86	86	%	0		20

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

Environmental Health & Engineering, Inc.

ALPHA Job # L1118187 ~~CHAIN OF CUSTODY~~ FORM

DATE: 8/24/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: Alpha Analytical

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228 soil

The cost of this analysis will be covered by EH&E Purchase Order # —

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
1268 16 ~~RC 1~~	Soil	8270, Pest, PCB's	8/24/11, 14:00
1268 17 ~~RC 2~~		RCRA 8 Metals, Ignit, pH, React	
1268 18 ~~RC 3~~		8260 High	
1268 19 ~~RC 4~~		8260 Low (48h hold)	
1268 20 ~~RC 5~~		8260 Low (48h hold)	

Special Instructions:

☐ Standard turn around time ☒ Rush by (5day) date/time ☐ Other

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☐ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient Kmyer@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: [signature] of Environmental Health & Engineering, Inc. Date: 8/24/11

Received by: [signature] of (company name) Date: 8/24/11 15:30

Relinquished by: [signature] of (company name) Date: 8/24/11 16:30

Received by: Kate Mort of (company name) Alpha Analytical Date: 8/24/11 16:35

Relinquished by: of (company name) Date:

Received by: of (company name) Date:

Lab Data
Received by: of Environmental Health & Engineering, Inc. Date:

Page ___ of ___

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY