

LETTER OF TRANSMITTAL

1301 Trumansburg Road, Suite N
Ithaca, NY 14850
Phone: (607) 216-8955
www.geiconsultants.com

To: Elizabeth B. Lukowski	Date: 12.30.2013
Engineering Geologist I	Project No. 1330710
NYSDEC	Re: Nyack Boat Club Property
625 Broadway	Sediment Sampling Results
Albany, NY 12233-7010	

We are sending you the following enclosures:

No.	Type	Description
1		Figure 1 – Sediment core locations at the Nyack Boat Club property collected in December 2013
1		Table 1 – SVOC Results for sediment samples collected at the Nyack Boat Club property in December 2013 (SD70, SD71, and SD72)
1		Appendix A – Sediment Core logs from the Nyack Boat Club property for cores collected in December 2013
1		Appendix B – Form I laboratory reports

These are transmitted as checked below:

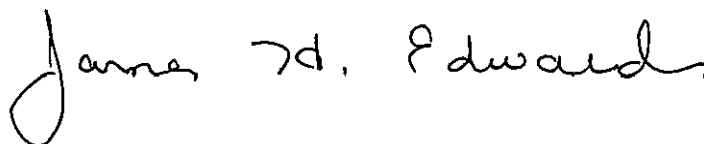
☐ For Approval ☐ For Your Use ☒ For Review/Comment ☐ As Requested ☐ Other

Message:

Core locations, core logs, and SVOC results for the sampling performed in December 2013 at the Nyack Boat Club property.

Signed:

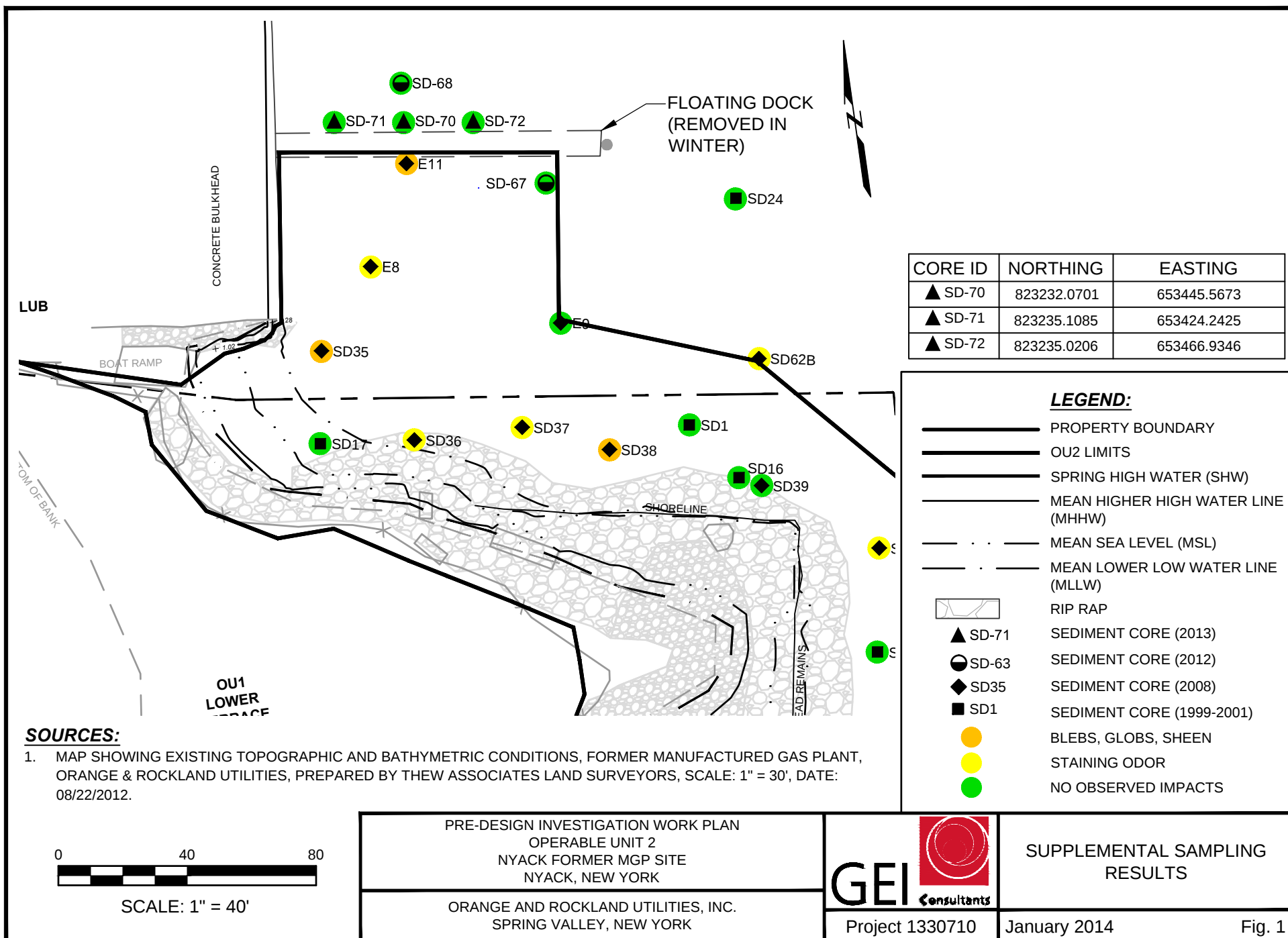
Copy to:
Maribeth McCormick – O&R
Jeffrey Peifer, P.E. – O&R
Paul Jansen – GEI



James Edwards, CPG
Project Geologist

If enclosures are not as noted, kindly notify us at once.

Figures



Tables

Table 1
Sediment SVOC Results
Nyack Boat Club Property (mg/Kg)

Analyte	CAS No.	SD70 (0.0-0.5) 12/16/2013	SD70 (0.5-1.0) 12/16/2013	SD70 (1.0-2.0) 12/16/2013	SD71 (0.0-0.5) 12/16/2013	SD71 (0.5-1.0) 12/16/2013	SD71 (1.0-1.6) 12/16/2013	SD72 (0.0-.05) 12/16/2013	SD72 (0.5-1.0) 12/16/2013	SD72 (1.0--2.0) 12/16/2013
PAHs (mg/Kg)										
2-Methylnaphthalene	91-57-6	0.35	0.1	0.041	0.042	0.055	0.036 J	0.036	0.031	0.028
Acenaphthene	83-32-9	1.1	0.23	0.22	0.087	0.28	0.6	0.07	0.057	0.063
Acenaphthylene	208-96-8	0.3	0.48	0.0087 J	0.2	0.51	0.38	0.19	0.24	0.016
Anthracene	120-12-7	0.69	0.5	0.014	0.25	0.27	1.4	0.29	0.3	0.096
Benzo[a]anthracene	56-55-3	1.5	2.3	0.026	1.3	2.4	2.1	1.4	0.86	0.28
Benzo[a]pyrene	50-32-8	1.6	2.5	0.025	1.2	2.4	1.7	1.5	0.94	0.22
Benzo[b]fluoranthene	205-99-2	1.4	2.5	0.024	1.6	2	1.4	1.6	0.78	0.24
Benzo[g,h,i]perylene	191-24-2	0.81	1.5	0.014	0.84	1.2	0.92	0.95	0.51	0.097
Benzo[k]fluoranthene	207-08-9	0.64	1.1	0.011	0.51	0.84	0.55	0.65	0.29	0.12
Chrysene	218-01-9	1.5	2.5	0.026	1.4	2.2	1.9	1.6	0.81	0.26
Dibenz(a,h)anthracene	53-70-3	0.18	0.36	ND	0.19	0.27	0.19	0.18	0.12	0.033
Fluoranthene	206-44-0	2.3	4	0.043	2.3	2.5	2.9	2.6	1.1	0.4
Fluorene	86-73-7	0.4	0.19	0.038	0.09	0.074	0.14	0.11	0.033	0.042
Indeno[1,2,3-cd]pyrene	193-39-5	0.6	1.1	0.012	0.65	0.89	0.61	0.73	0.37	0.093
Naphthalene	91-20-3	0.97	0.17	0.059	0.078	0.12	0.12	0.062	0.075	0.1
Phenanthrene	85-01-8	1.9	1.5	0.037	0.89	0.29	2.7	1	0.51	0.15
Pyrene	129-00-0	3.4	4.7	0.069	2.7	4	4.5	3.2	1.7	0.38
Total TPAH17 (mg/Kg)	NA	19.6	25.7	0.667	14.3	20.3	22.1	16.2	8.7	2.6
SVOCs (mg/Kg)										
1,1'-Biphenyl	92-52-4	0.1 J	ND	ND	ND	ND	0.067 J	ND	0.024 J	ND
1-Methylnaphthalene	90-12-0	0.77	0.1	0.23	0.031 J	0.07	0.11	0.023 J	0.022	0.032
2,4,5-Trichlorophenol	95-95-4	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	88-06-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	120-83-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	105-67-9	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	51-28-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	121-14-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	606-20-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	91-58-7	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	95-57-8	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	95-48-7	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	88-74-4	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	88-75-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
3 & 4 Methylphenol	15831-10-4	ND	ND	ND	ND	ND	ND	ND	0.044 J	0.039 J
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	99-09-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	101-55-3	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	59-50-7	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	106-47-8	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	7005-72-3	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	100-01-6	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	100-02-7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	98-86-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Atrazine	1912-24-9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	100-52-7	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *
bis (2-chloroisopropyl) ether	108-60-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	111-91-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	111-44-4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	117-81-7	ND	0.18 J B	0.059 J B	0.150 J B	ND	ND	0.150 J B	0.087 J B	0.059 J B
Butyl benzyl phthalate	85-68-7	ND	0.170 J	ND	ND	ND	ND	ND	ND	ND
Caprolactam	105-60-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	86-74-8	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	132-64-9	0.068 J	0.068 J	ND	ND	ND	ND	0.033 J	0.014 J	0.014 J
Diethyl phthalate	84-66-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	131-11-3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	84-74-2	ND	ND	0.027 J B	ND	ND	ND	ND	0.038 J B	0.031 J B
Di-n-octyl phthalate	117-84-0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	118-74-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	87-68-3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	77-47-4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	67-72-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	78-59-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	98-95-3	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	86-30-6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	87-86-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	108-95-2	ND	ND	ND	ND	ND	ND	ND	ND	0.021 J
Total SVOCs (mg/Kg)	NA	20.6	26.2	0.98	14.5	20.4	22.3	16.4	8.96	2.8

Appendix A
Sediment Core Logs



GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: Orange & Rockland Utilities
PROJECT: Nyack Boat Club
CITY/STATE: Nyack, New York
GEI PROJECT NUMBER: 1330710

BORING LOG

PAGE
1 of 1

SD-70

NORTHING (FT): 823232.0710 EASTING (FT): 653445.5673 LOCATION: Nyack Boat Club Property
DRILLED BY: TGB TOTAL DEPTH (FT): 2.0
LOGGED BY: A. Royko DATUM VERT. / HORZ.: NAD83
DRILLING DETAILS: Vibracore DATE START / END: 12/16/2013 - 12/16/2013
WATER LEVEL DEPTHS (FT): NA
GENERAL NOTE: _____

ELEV. FT.	DEPTH FT.	SAMPLE INFO			STRATA	VISUAL IMPACTS	ANALYZED SAMPLE ID	SEDIMENT DESCRIPTION
		TYPE and NO.	PEN/REC IN./IN.	PID (PPM)				
	0	VC	24/2	0.4			SD-70 (0-0.5)	(0-0.8') SILT (ML); ~95% fines, ~5% sand, fine, shells, fibers, wood fibers in top 0.5', wet, brown-black.
				0.3			SD-70 (0.5-1)	
	1						SD-70 (1-2)	(0.8-2') NARROWLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine, ~10% fines, fibers, shells, mica, stiff, damp, brown.
	2			0.6				

End of boring at 2 feet bss.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (PPM)
JHS = JAR HEADSPACE PID READING (PPM)

NA = NOT APPLICABLE Q_p = POCKET PENETROMETER
NM = NOT MEASURED S_v = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR



GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: Orange & Rockland Utilities
PROJECT: Nyack Boat Club
CITY/STATE: Nyack, New York
GEI PROJECT NUMBER: 1330710

BORING LOG

PAGE
1 of 1

SD-71

NORTHING (FT): 823235.1085 EASTING (FT): 653424.2425 LOCATION: Nyack Boat Club Property
DRILLED BY: TGB TOTAL DEPTH (FT): 2.0
LOGGED BY: A. Royko DATUM VERT. / HORZ.: NAD83
DRILLING DETAILS: Vibracore DATE START / END: 12/16/2013 - 12/16/2013
WATER LEVEL DEPTHS (FT): NA
GENERAL NOTE: _____

ELEV. FT.	DEPTH FT.	SAMPLE INFO			STRATA	VISUAL IMPACTS	ANALYZED SAMPLE ID	SEDIMENT DESCRIPTION
		TYPE and NO.	PEN/REC IN./IN.	PID (PPM)				
	0	VC	24/1.6	0.3			SD-71 (0-0.5)	(0-0.3') SILT WITH SAND (ML); ~80% fines, ~15% sand, fine, ~5% gravel, shells, fibers, wet, gray-brown.
				1.7			SD-71 (0.5-1)	(0.3-1.3') SILT (ML); ~95% fines, ~5% sand, fine, fibers, cohesive, wet, gray-brown, very slight hydrocarbon-like odor--just above the detectable threshold.
	1			0.5			SD-71 (1-1.6)	(1.3-1.6') NARROWLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine, ~10% fines, oyster shell at 1.3', wet, brown.
	2							(1.6-2') WOOD FRAGMENTS.

End of boring at 2 feet bss.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (PPM)
JHS = JAR HEADSPACE PID READING (PPM)

NA = NOT APPLICABLE Q_p = POCKET PENETROMETER
NM = NOT MEASURED S_v = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

	GEI Consultants, Inc. 455 Winding Brook Road Glastonbury, CT 06033 (860) 368-5300	CLIENT: Orange & Rockland Utilities		BORING LOG	
		PROJECT: Nyack Boat Club		PAGE 1 of 1	SD-72
		CITY/STATE: Nyack, New York			
		GEI PROJECT NUMBER: 1330710			

NORTHING (FT): 823235.0206 EASTING (FT): 653466.9346	LOCATION: Nyack Boat Club Property	TOTAL DEPTH (FT): 2.0
DRILLED BY: TGB	DATUM VERT. / HORZ.: NAD83	
LOGGED BY: A. Royko	DATE START / END: 12/16/2013 - 12/16/2013	
DRILLING DETAILS: Vibracore		
WATER LEVEL DEPTHS (FT): NA		
GENERAL NOTE:		

ELEV. FT.	DEPTH FT.	SAMPLE INFO			STRATA	VISUAL IMPACTS	ANALYZED SAMPLE ID	SEDIMENT DESCRIPTION
		TYPE and NO.	PEN/REC IN./IN.	PID (PPM)				
	0	VC	24/2	0.3			SD-72 (0-0.5)	(0-0.5') SILT (ML); ~95% fines, ~5% sand, fine, wood fibers, oyster shell, wet, gray-brown.
				0.4			SD-72 (0.5-1)	(0.5-1.8') SILT WITH SAND (ML); ~85% fines, ~15% sand, fine, ~2" wood chunk at 1.7', cohesive, wet, gray-brown.
	1			0.6			SD-72 (1-2)	
	2							(1.8-2') WOOD FRAGMENT. End of boring at 2 feet bss.

NOTES:			
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (PPM) JHS = JAR HEADSPACE PID READING (PPM)	ppm = PARTS PER MILLION IN. = INCHES FT. = FEET Q _p = POCKET PENETROMETER S _v = TORVANE PEAK	NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR	CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR
NA = NOT APPLICABLE NM = NOT MEASURED			

ENVIRONMENTAL BORING LOG, SEDIMENT PRECHAR AND NBC LOGS - 12.19.13.GPJ - 12/30/13

Appendix B
COC and Laboratory Form I Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-52121-1

Client Project/Site: Orange & Rockland - Nyack Pre-Characteri

Revision: 1

For:

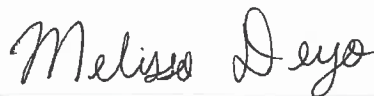
GEI Consultants, Inc.

1301 Trumansburg Road

Suite N

Ithaca, New York 14850

Attn: James Edwards



Authorized for release by:

12/23/2013 2:15:56 PM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

LINKS

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results through

Total Access

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

2.9

TAL-4124 (10/07)

Client

COE

Address

Project Manager

JAMES EDWARDS

Telephone Number (Area Code)/Fax Number

Date

Lab Number

Chain of Custody Number

270711

Page 1 of 1

City State Zip Code

Site Contact

Lab Contact

Analysis (Attach list if more space is needed)

Project Name and Location (State)

NYACIC

Contract/Purchase Order/Quote No.

Sample I.D. No. and Description (Containers for each sample may be combined on one line)

SD70 (0.0-0.5)

SD70 (0.5-1.0)

SD70 (1.0-2.0)

SD71 (0.0-0.5)

SD71 (0.5-1.0)

SD71 (1.0-2.0)

SD72 (0.0-0.5)

SD72 (0.5-1.0)

SD72 (1.0-2.0)

Date

12-16

Time

1400

Time

1320

Time

1335

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Special Instructions/
Conditions of Receipt

RUSH
TAT
3 DAY
8270D

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other

1. Requested By

James Edwards

2. Requested By

3. Requested By

Comments

Sample Disposal

☐ Return to Client ☐ Dispose by Lab ☐ Archive For

QC Requirements (Specify)

(A fee may be assessed if samples are retained longer than 1 month)

1. Received By

2. Received By

3. Received By

Date

Time

Date

Time

Date

Time

Date

Client Sample Results

Client: GEI Consultants, Inc.

Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD70 (0.0-0.5)

Date Collected: 12/16/13 14:00

Date Received: 12/17/13 10:10

Lab Sample ID: 480-52121-1

Matrix: Solid

Percent Solids: 58.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	100	J	350	25	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
1-Methylnaphthalene	770		47	5.7	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2,4,5-Trichlorophenol	ND		1100	180	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2,4,6-Trichlorophenol	ND		1100	62	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2,4-Dichlorophenol	ND		1100	140	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2,4-Dimethylphenol	ND		1100	140	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2,4-Dinitrophenol	ND		2300	150	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2,4-Dinitrotoluene	ND		1400	120	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2,6-Dinitrotoluene	ND		1400	150	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2-Chloronaphthalene	ND		350	3.2	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2-Chlorophenol	ND		350	57	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2-Methylnaphthalene	350		47	3.5	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2-Methylphenol	ND		1400	77	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2-Nitroaniline	ND		1400	64	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
2-Nitrophenol	ND		350	58	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
3 & 4 Methylphenol	ND		2800	140	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
3,3'-Dichlorobenzidine	ND		700	130	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
3-Nitroaniline	ND		1400	110	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
4,6-Dinitro-2-methylphenol	ND		1100	64	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
4-Bromophenyl phenyl ether	ND		350	91	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
4-Chloro-3-methylphenol	ND		1100	150	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
4-Chloroaniline	ND		1100	120	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
4-Chlorophenyl phenyl ether	ND		350	91	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
4-Nitroaniline	ND		1400	180	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
4-Nitrophenol	ND		2300	120	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Acenaphthene	1100		47	5.3	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Acenaphthylene	300		47	2.5	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Acetophenone	ND		700	64	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Anthracene	690		47	5.5	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Atrazine	ND		1400	64	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Benzaldehyde	ND *		700	84	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Benzo[a]anthracene	1500		47	4.4	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Benzo[a]pyrene	1600		47	4.5	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Benzo[b]fluoranthene	1400		47	4.1	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Benzo[g,h,i]perylene	810		47	2.5	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Benzo[k]fluoranthene	640		47	4.8	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
bis (2-chloroisopropyl) ether	ND		700	67	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Bis(2-chloroethoxy)methane	ND		700	150	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Bis(2-chloroethyl)ether	ND		700	14	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Bis(2-ethylhexyl) phthalate	ND		490	130	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Butyl benzyl phthalate	ND		490	70	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Caprolactam	ND		2300	260	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Carbazole	ND		350	190	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Chrysene	1500		47	7.7	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Dibenz(a,h)anthracene	180		47	4.6	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Dibenzofuran	68 J		350	4.6	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Diethyl phthalate	ND		490	110	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Dimethyl phthalate	ND		490	120	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4
Di-n-butyl phthalate	ND		490	110	ug/Kg	☼	12/18/13 07:36	12/20/13 12:17	4

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD70 (0.0-0.5)

Lab Sample ID: 480-52121-1

Date Collected: 12/16/13 14:00

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 58.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		490	55	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Fluoranthene	2300		47	3.9	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Fluorene	400		47	3.7	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Hexachlorobenzene	ND		47	15	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Hexachlorobutadiene	ND		350	39	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Hexachlorocyclopentadiene	ND		2300	57	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Hexachloroethane	ND		350	63	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Indeno[1,2,3-cd]pyrene	600		47	2.5	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Isophorone	ND		350	91	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Naphthalene	970		47	5.7	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Nitrobenzene	ND		700	15	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
N-Nitrosodi-n-propylamine	ND		350	44	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
N-Nitrosodiphenylamine	ND		350	150	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Pentachlorophenol	ND		1100	64	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Phenanthrene	1900		47	5.1	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Phenol	ND		350	51	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4
Pyrene	3400		47	3.1	ug/Kg	✱	12/18/13 07:36	12/20/13 12:17	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		10 - 110	12/18/13 07:36	12/20/13 12:17	4
2-Fluorobiphenyl (Surr)	79		24 - 110	12/18/13 07:36	12/20/13 12:17	4
2-Fluorophenol (Surr)	78		24 - 110	12/18/13 07:36	12/20/13 12:17	4
Nitrobenzene-d5 (Surr)	72		20 - 110	12/18/13 07:36	12/20/13 12:17	4
Phenol-d5 (Surr)	85		26 - 110	12/18/13 07:36	12/20/13 12:17	4
Terphenyl-d14 (Surr)	105		36 - 110	12/18/13 07:36	12/20/13 12:17	4

Client Sample ID: SD70 (0.5-1.0)

Lab Sample ID: 480-52121-2

Date Collected: 12/16/13 14:00

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 74.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		330	23	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
1-Methylnaphthalene	100		44	5.4	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2,4,5-Trichlorophenol	ND		1000	170	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2,4,6-Trichlorophenol	ND		1000	59	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2,4-Dichlorophenol	ND		1000	130	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2,4-Dimethylphenol	ND		1000	130	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2,4-Dinitrophenol	ND		2200	140	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2,4-Dinitrotoluene	ND		1300	110	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2,6-Dinitrotoluene	ND		1300	140	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2-Chloronaphthalene	ND		330	3.0	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2-Chlorophenol	ND		330	55	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2-Methylnaphthalene	100		44	3.3	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2-Methylphenol	ND		1300	73	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2-Nitroaniline	ND		1300	61	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
2-Nitrophenol	ND		330	55	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
3 & 4 Methylphenol	ND		2700	130	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
3,3'-Dichlorobenzidine	ND		660	120	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
3-Nitroaniline	ND		1300	110	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD70 (0.5-1.0)

Lab Sample ID: 480-52121-2

Date Collected: 12/16/13 14:00

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 74.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
4,6-Dinitro-2-methylphenol	ND		1000	61	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
4-Bromophenyl phenyl ether	ND		330	86	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
4-Chloro-3-methylphenol	ND		1000	140	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
4-Chloroaniline	ND		1000	110	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
4-Chlorophenyl phenyl ether	ND		330	86	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
4-Nitroaniline	ND		1300	170	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
4-Nitrophenol	ND		2200	110	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Acenaphthene	230		44	5.1	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Acenaphthylene	480		44	2.3	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Acetophenone	ND		660	61	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Anthracene	500		44	5.2	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Atrazine	ND		1300	61	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Benzaldehyde	ND	*	660	80	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Benzo[a]anthracene	2300		44	4.2	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Benzo[a]pyrene	2500		44	4.3	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Benzo[b]fluoranthene	2500		44	3.9	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Benzo[g,h,i]perylene	1500		44	2.3	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Benzo[k]fluoranthene	1100		44	4.5	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
bis (2-chloroisopropyl) ether	ND		660	63	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Bis(2-chloroethoxy)methane	ND		660	150	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Bis(2-chloroethyl)ether	ND		660	13	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Bis(2-ethylhexyl) phthalate	180	J B	470	130	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Butyl benzyl phthalate	170	J	470	66	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Caprolactam	ND		2200	250	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Carbazole	ND		330	180	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Chrysene	2500		44	7.3	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Dibenz(a,h)anthracene	360		44	4.4	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Dibenzofuran	68	J	330	4.4	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Diethyl phthalate	ND		470	110	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Dimethyl phthalate	ND		470	110	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Di-n-butyl phthalate	ND		470	100	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Di-n-octyl phthalate	ND		470	53	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Fluoranthene	4000		44	3.7	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Fluorene	190		44	3.5	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Hexachlorobenzene	ND		44	14	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Hexachlorobutadiene	ND		330	37	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Hexachlorocyclopentadiene	ND		2200	54	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Hexachloroethane	ND		330	60	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Indeno[1,2,3-cd]pyrene	1100		44	2.3	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Isophorone	ND		330	86	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Naphthalene	170		44	5.5	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Nitrobenzene	ND		660	15	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
N-Nitrosodi-n-propylamine	ND		330	42	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
N-Nitrosodiphenylamine	ND		330	140	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Pentachlorophenol	ND		1000	61	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Phenanthrene	1500		44	4.9	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Phenol	ND		330	49	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5
Pyrene	4700		44	2.9	ug/Kg	✱	12/18/13 07:36	12/20/13 11:52	5

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD70 (0.5-1.0)

Lab Sample ID: 480-52121-2

Date Collected: 12/16/13 14:00

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 74.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		10 - 110	12/18/13 07:36	12/20/13 11:52	5
2-Fluorobiphenyl (Surr)	75		24 - 110	12/18/13 07:36	12/20/13 11:52	5
2-Fluorophenol (Surr)	68		24 - 110	12/18/13 07:36	12/20/13 11:52	5
Nitrobenzene-d5 (Surr)	66		20 - 110	12/18/13 07:36	12/20/13 11:52	5
Phenol-d5 (Surr)	75		26 - 110	12/18/13 07:36	12/20/13 11:52	5
Terphenyl-d14 (Surr)	97		36 - 110	12/18/13 07:36	12/20/13 11:52	5

Client Sample ID: SD70 (1.0-2.0)

Lab Sample ID: 480-52121-3

Date Collected: 12/16/13 14:00

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 77.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		66	4.6	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
1-Methylnaphthalene	230		8.8	1.1	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2,4,5-Trichlorophenol	ND		200	33	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2,4,6-Trichlorophenol	ND		200	12	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2,4-Dichlorophenol	ND		200	26	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2,4-Dimethylphenol	ND		200	26	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2,4-Dinitrophenol	ND		430	28	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2,4-Dinitrotoluene	ND		260	22	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2,6-Dinitrotoluene	ND		260	28	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2-Chloronaphthalene	ND		66	0.59	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2-Chlorophenol	ND		66	11	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2-Methylnaphthalene	41		8.8	0.66	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2-Methylphenol	ND		260	14	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2-Nitroaniline	ND		260	12	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
2-Nitrophenol	ND		66	11	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
3 & 4 Methylphenol	ND		530	26	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
3,3'-Dichlorobenzidine	ND		130	24	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
3-Nitroaniline	ND		260	21	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
4,6-Dinitro-2-methylphenol	ND		200	12	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
4-Bromophenyl phenyl ether	ND		66	17	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
4-Chloro-3-methylphenol	ND		200	28	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
4-Chloroaniline	ND		200	22	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
4-Chlorophenyl phenyl ether	ND		66	17	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
4-Nitroaniline	ND		260	34	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
4-Nitrophenol	ND		430	22	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Acenaphthene	220		8.8	1.0	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Acenaphthylene	8.7 J		8.8	0.46	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Acetophenone	ND		130	12	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Anthracene	14		8.8	1.0	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Atrazine	ND		260	12	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Benzaldehyde	ND *		130	16	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Benzo[a]anthracene	26		8.8	0.83	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Benzo[a]pyrene	25		8.8	0.84	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Benzo[b]fluoranthene	24		8.8	0.78	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Benzo[g,h,i]perylene	14		8.8	0.46	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
Benzo[k]fluoranthene	11		8.8	0.89	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1
bis (2-chloroisopropyl) ether	ND		130	12	ug/Kg	☆	12/18/13 07:36	12/20/13 15:11	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.

TestAmerica Job ID: 480-52121-1

Project/Site: Orange & Rockland - Nyack Pre-Characteri

Client Sample ID: SD70 (1.0-2.0)

Lab Sample ID: 480-52121-3

Date Collected: 12/16/13 14:00

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 77.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		130	29	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Bis(2-chloroethyl)ether	ND		130	2.6	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Bis(2-ethylhexyl) phthalate	59	J B	92	25	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Butyl benzyl phthalate	ND		92	13	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Caprolactam	ND		430	49	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Carbazole	ND		66	36	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Chrysene	26		8.8	1.4	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Dibenz(a,h)anthracene	ND		8.8	0.87	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Dibenzofuran	ND		66	0.87	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Diethyl phthalate	ND		92	21	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Dimethyl phthalate	ND		92	22	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Di-n-butyl phthalate	27	J B	92	20	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Di-n-octyl phthalate	ND		92	10	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Fluoranthene	43		8.8	0.72	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Fluorene	38		8.8	0.70	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Hexachlorobenzene	ND		8.8	2.8	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Hexachlorobutadiene	ND		66	7.4	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Hexachlorocyclopentadiene	ND		430	11	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Hexachloroethane	ND		66	12	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Indeno[1,2,3-cd]pyrene	12		8.8	0.46	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Isophorone	ND		66	17	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Naphthalene	59		8.8	1.1	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Nitrobenzene	ND		130	2.9	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
N-Nitrosodi-n-propylamine	ND		66	8.3	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
N-Nitrosodiphenylamine	ND		66	28	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Pentachlorophenol	ND		200	12	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Phenanthrene	37		8.8	0.96	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Phenol	ND		66	9.6	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Pyrene	69		8.8	0.58	ug/Kg	✱	12/18/13 07:36	12/20/13 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		10 - 110				12/18/13 07:36	12/20/13 15:11	1
2-Fluorobiphenyl (Surr)	61		24 - 110				12/18/13 07:36	12/20/13 15:11	1
2-Fluorophenol (Surr)	67		24 - 110				12/18/13 07:36	12/20/13 15:11	1
Nitrobenzene-d5 (Surr)	62		20 - 110				12/18/13 07:36	12/20/13 15:11	1
Phenol-d5 (Surr)	66		26 - 110				12/18/13 07:36	12/20/13 15:11	1
Terphenyl-d14 (Surr)	85		36 - 110				12/18/13 07:36	12/20/13 15:11	1

Client Sample ID: SD71 (0.0-0.5)

Lab Sample ID: 480-52121-4

Date Collected: 12/16/13 13:20

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 72.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		280	20	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
1-Methylnaphthalene	31	J	37	4.5	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2,4,5-Trichlorophenol	ND		840	140	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2,4,6-Trichlorophenol	ND		840	50	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2,4-Dichlorophenol	ND		840	110	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2,4-Dimethylphenol	ND		840	110	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.

TestAmerica Job ID: 480-52121-1

Project/Site: Orange & Rockland - Nyack Pre-Characteri

Client Sample ID: SD71 (0.0-0.5)

Lab Sample ID: 480-52121-4

Date Collected: 12/16/13 13:20

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 72.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		1800	120	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2,4-Dinitrotoluene	ND		1100	95	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2,6-Dinitrotoluene	ND		1100	120	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2-Chloronaphthalene	ND		280	2.5	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2-Chlorophenol	ND		280	46	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2-Methylnaphthalene	42		37	2.8	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2-Methylphenol	ND		1100	61	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2-Nitroaniline	ND		1100	51	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
2-Nitrophenol	ND		280	46	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
3 & 4 Methylphenol	ND		2200	110	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
3,3'-Dichlorobenzidine	ND		560	100	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
3-Nitroaniline	ND		1100	89	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
4,6-Dinitro-2-methylphenol	ND		840	51	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
4-Bromophenyl phenyl ether	ND		280	73	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
4-Chloro-3-methylphenol	ND		840	120	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
4-Chloroaniline	ND		840	95	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
4-Chlorophenyl phenyl ether	ND		280	73	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
4-Nitroaniline	ND		1100	150	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
4-Nitrophenol	ND		1800	95	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Acenaphthene	87		37	4.2	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Acenaphthylene	200		37	2.0	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Acetophenone	ND		560	51	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Anthracene	250		37	4.4	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Atrazine	ND		1100	51	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Benzaldehyde	ND *		560	67	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Benzo[a]anthracene	1300		37	3.5	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Benzo[a]pyrene	1200		37	3.6	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Benzo[b]fluoranthene	1600		37	3.3	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Benzo[g,h,i]perylene	840		37	2.0	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Benzo[k]fluoranthene	510		37	3.8	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
bis (2-chloroisopropyl) ether	ND		560	53	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Bis(2-chloroethoxy)methane	ND		560	120	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Bis(2-chloroethyl)ether	ND		560	11	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Bis(2-ethylhexyl) phthalate	150 J B		390	110	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Butyl benzyl phthalate	ND		390	56	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Caprolactam	ND		1800	210	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Carbazole	ND		280	150	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Chrysene	1400		37	6.1	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Dibenz(a,h)anthracene	190		37	3.7	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Dibenzofuran	ND		280	3.7	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Diethyl phthalate	ND		390	89	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Dimethyl phthalate	ND		390	95	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Di-n-butyl phthalate	ND		390	84	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Di-n-octyl phthalate	ND		390	44	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Fluoranthene	2300		37	3.1	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Fluorene	90		37	3.0	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Hexachlorobenzene	ND		37	12	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Hexachlorobutadiene	ND		280	31	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Hexachlorocyclopentadiene	ND		1800	45	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD71 (0.0-0.5)

Lab Sample ID: 480-52121-4

Date Collected: 12/16/13 13:20

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 72.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		280	50	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Indeno[1,2,3-cd]pyrene	650		37	2.0	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Isophorone	ND		280	73	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Naphthalene	78		37	4.6	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Nitrobenzene	ND		560	12	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
N-Nitrosodi-n-propylamine	ND		280	35	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
N-Nitrosodiphenylamine	ND		280	120	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Pentachlorophenol	ND		840	51	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Phenanthrene	890		37	4.1	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Phenol	ND		280	41	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4
Pyrene	2700		37	2.5	ug/Kg	✱	12/18/13 07:36	12/20/13 12:41	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		10 - 110	12/18/13 07:36	12/20/13 12:41	4
2-Fluorobiphenyl (Surr)	67		24 - 110	12/18/13 07:36	12/20/13 12:41	4
2-Fluorophenol (Surr)	66		24 - 110	12/18/13 07:36	12/20/13 12:41	4
Nitrobenzene-d5 (Surr)	62		20 - 110	12/18/13 07:36	12/20/13 12:41	4
Phenol-d5 (Surr)	71		26 - 110	12/18/13 07:36	12/20/13 12:41	4
Terphenyl-d14 (Surr)	96		36 - 110	12/18/13 07:36	12/20/13 12:41	4

Client Sample ID: SD71 (0.5-1.0)

Lab Sample ID: 480-52121-5

Date Collected: 12/16/13 13:20

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 60.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		330	23	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
1-Methylnaphthalene	70		44	5.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2,4,5-Trichlorophenol	ND		980	160	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2,4,6-Trichlorophenol	ND		980	58	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2,4-Dichlorophenol	ND		980	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2,4-Dimethylphenol	ND		980	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2,4-Dinitrophenol	ND		2200	140	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2,4-Dinitrotoluene	ND		1300	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2,6-Dinitrotoluene	ND		1300	140	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2-Chloronaphthalene	ND		330	2.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2-Chlorophenol	ND		330	54	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2-Methylnaphthalene	55		44	3.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2-Methylphenol	ND		1300	72	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2-Nitroaniline	ND		1300	60	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
2-Nitrophenol	ND		330	54	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
3 & 4 Methylphenol	ND		2600	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
3,3'-Dichlorobenzidine	ND		660	120	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
3-Nitroaniline	ND		1300	100	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
4,6-Dinitro-2-methylphenol	ND		980	60	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
4-Bromophenyl phenyl ether	ND		330	85	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
4-Chloro-3-methylphenol	ND		980	140	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
4-Chloroaniline	ND		980	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
4-Chlorophenyl phenyl ether	ND		330	85	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
4-Nitroaniline	ND		1300	170	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD71 (0.5-1.0)

Lab Sample ID: 480-52121-5

Date Collected: 12/16/13 13:20

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 60.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		2200	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Acenaphthene	280		44	5.0	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Acenaphthylene	510		44	2.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Acetophenone	ND		660	60	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Anthracene	270		44	5.1	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Atrazine	ND		1300	60	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Benzaldehyde	ND *		660	79	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Benzo[a]anthracene	2400		44	4.1	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Benzo[a]pyrene	2400		44	4.2	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Benzo[b]fluoranthene	2000		44	3.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Benzo[g,h,i]perylene	1200		44	2.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Benzo[k]fluoranthene	840		44	4.5	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
bis (2-chloroisopropyl) ether	ND		660	62	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Bis(2-chloroethoxy)methane	ND		660	140	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Bis(2-chloroethyl)ether	ND		660	13	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Bis(2-ethylhexyl) phthalate	ND		460	120	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Butyl benzyl phthalate	ND		460	66	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Caprolactam	ND		2200	240	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Carbazole	ND		330	180	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Chrysene	2200		44	7.2	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Dibenz(a,h)anthracene	270		44	4.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Dibenzofuran	ND		330	4.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Diethyl phthalate	ND		460	100	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Dimethyl phthalate	ND		460	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Di-n-butyl phthalate	ND		460	98	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Di-n-octyl phthalate	ND		460	52	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Fluoranthene	2500		44	3.6	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Fluorene	74		44	3.5	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Hexachlorobenzene	ND		44	14	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Hexachlorobutadiene	ND		330	37	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Hexachlorocyclopentadiene	ND		2200	53	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Hexachloroethane	ND		330	59	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Indeno[1,2,3-cd]pyrene	890		44	2.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Isophorone	ND		330	85	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Naphthalene	120		44	5.4	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Nitrobenzene	ND		660	14	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
N-Nitrosodi-n-propylamine	ND		330	41	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
N-Nitrosodiphenylamine	ND		330	140	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Pentachlorophenol	ND		980	60	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Phenanthrene	290		44	4.8	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Phenol	ND		330	48	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4
Pyrene	4000		44	2.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:05	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		10 - 110	12/18/13 07:36	12/20/13 13:05	4
2-Fluorobiphenyl (Surr)	58		24 - 110	12/18/13 07:36	12/20/13 13:05	4
2-Fluorophenol (Surr)	53		24 - 110	12/18/13 07:36	12/20/13 13:05	4
Nitrobenzene-d5 (Surr)	52		20 - 110	12/18/13 07:36	12/20/13 13:05	4
Phenol-d5 (Surr)	57		26 - 110	12/18/13 07:36	12/20/13 13:05	4
Terphenyl-d14 (Surr)	78		36 - 110	12/18/13 07:36	12/20/13 13:05	4

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Character

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD71 (1.0-1.6)

Lab Sample ID: 480-52121-6

Date Collected: 12/16/13 13:20

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 63.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	67	J	310	22	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
1-Methylnaphthalene	110		42	5.1	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2,4,5-Trichlorophenol	ND		940	160	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2,4,6-Trichlorophenol	ND		940	56	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2,4-Dichlorophenol	ND		940	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2,4-Dimethylphenol	ND		940	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2,4-Dinitrophenol	ND		2100	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2,4-Dinitrotoluene	ND		1300	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2,6-Dinitrotoluene	ND		1300	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2-Chloronaphthalene	ND		310	2.8	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2-Chlorophenol	ND		310	52	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2-Methylnaphthalene	36	J	42	3.1	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2-Methylphenol	ND		1300	69	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2-Nitroaniline	ND		1300	57	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
2-Nitrophenol	ND		310	52	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
3 & 4 Methylphenol	ND		2500	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
3,3'-Dichlorobenzidine	ND		630	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
3-Nitroaniline	ND		1300	100	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
4,6-Dinitro-2-methylphenol	ND		940	58	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
4-Bromophenyl phenyl ether	ND		310	82	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
4-Chloro-3-methylphenol	ND		940	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
4-Chloroaniline	ND		940	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
4-Chlorophenyl phenyl ether	ND		310	82	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
4-Nitroaniline	ND		1300	160	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
4-Nitrophenol	ND		2100	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Acenaphthene	600		42	4.8	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Acenaphthylene	380		42	2.2	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Acetophenone	ND		630	58	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Anthracene	1400		42	4.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Atrazine	ND		1300	57	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Benzaldehyde	ND	*	630	75	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Benzo[a]anthracene	2100		42	4.0	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Benzo[a]pyrene	1700		42	4.0	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Benzo[b]fluoranthene	1400		42	3.7	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Benzo[g,h,i]perylene	920		42	2.2	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Benzo[k]fluoranthene	550		42	4.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
bis (2-chloroisopropyl) ether	ND		630	60	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Bis(2-chloroethoxy)methane	ND		630	140	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Bis(2-chloroethyl)ether	ND		630	13	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Bis(2-ethylhexyl) phthalate	ND		440	120	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Butyl benzyl phthalate	ND		440	63	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Caprolactam	ND		2100	230	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Carbazole	ND		310	170	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Chrysene	1900		42	6.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Dibenz(a,h)anthracene	190		42	4.1	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Dibenzofuran	ND		310	4.1	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Diethyl phthalate	ND		440	100	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Dimethyl phthalate	ND		440	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Di-n-butyl phthalate	ND		440	94	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.

Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD71 (1.0-1.6)

Lab Sample ID: 480-52121-6

Date Collected: 12/16/13 13:20

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 63.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		440	50	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Fluoranthene	2900		42	3.5	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Fluorene	140		42	3.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Hexachlorobenzene	ND		42	13	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Hexachlorobutadiene	ND		310	35	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Hexachlorocyclopentadiene	ND		2100	51	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Hexachloroethane	ND		310	57	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Indeno[1,2,3-cd]pyrene	610		42	2.2	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Isophorone	ND		310	82	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Naphthalene	120		42	5.2	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Nitrobenzene	ND		630	14	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
N-Nitrosodi-n-propylamine	ND		310	40	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
N-Nitrosodiphenylamine	ND		310	130	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Pentachlorophenol	ND		940	57	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Phenanthrene	2700		42	4.6	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Phenol	ND		310	46	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Pyrene	4500		42	2.8	ug/Kg	✱	12/18/13 07:36	12/20/13 13:30	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		10 - 110				12/18/13 07:36	12/20/13 13:30	4
2-Fluorobiphenyl (Surr)	70		24 - 110				12/18/13 07:36	12/20/13 13:30	4
2-Fluorophenol (Surr)	70		24 - 110				12/18/13 07:36	12/20/13 13:30	4
Nitrobenzene-d5 (Surr)	63		20 - 110				12/18/13 07:36	12/20/13 13:30	4
Phenol-d5 (Surr)	73		26 - 110				12/18/13 07:36	12/20/13 13:30	4
Terphenyl-d14 (Surr)	96		36 - 110				12/18/13 07:36	12/20/13 13:30	4

Client Sample ID: SD72 (0.0-.05)

Lab Sample ID: 480-52121-7

Date Collected: 12/16/13 12:35

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 55.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		220	16	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
1-Methylnaphthalene	23	J	30	3.6	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2,4,5-Trichlorophenol	ND		670	110	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2,4,6-Trichlorophenol	ND		670	40	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2,4-Dichlorophenol	ND		670	89	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2,4-Dimethylphenol	ND		670	89	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2,4-Dinitrophenol	ND		1500	94	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2,4-Dinitrotoluene	ND		890	76	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2,6-Dinitrotoluene	ND		890	94	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2-Chloronaphthalene	ND		220	2.0	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2-Chlorophenol	ND		220	37	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2-Methylnaphthalene	36		30	2.2	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2-Methylphenol	ND		890	49	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2-Nitroaniline	ND		890	41	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
2-Nitrophenol	ND		220	37	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
3 & 4 Methylphenol	ND		1800	89	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
3,3'-Dichlorobenzidine	ND		450	80	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
3-Nitroaniline	ND		890	71	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD72 (0.0-.05)

Lab Sample ID: 480-52121-7

Date Collected: 12/16/13 12:35

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 55.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		670	41	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
4-Bromophenyl phenyl ether	ND		220	58	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
4-Chloro-3-methylphenol	ND		670	94	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
4-Chloroaniline	ND		670	76	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
4-Chlorophenyl phenyl ether	ND		220	58	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
4-Nitroaniline	ND		890	120	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
4-Nitrophenol	ND		1500	76	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Acenaphthene	70		30	3.4	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Acenaphthylene	190		30	1.6	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Acetophenone	ND		450	41	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Anthracene	290		30	3.5	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Atrazine	ND		890	41	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Benzaldehyde	ND		450	54	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Benzo[a]anthracene	1400		30	2.8	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Benzo[a]pyrene	1500		30	2.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Benzo[b]fluoranthene	1600		30	2.6	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Benzo[g,h,i]perylene	950		30	1.6	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Benzo[k]fluoranthene	650		30	3.0	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
bis (2-chloroisopropyl) ether	ND		450	42	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Bis(2-chloroethoxy)methane	ND		450	98	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Bis(2-chloroethyl)ether	ND		450	8.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Bis(2-ethylhexyl) phthalate	150	J B	310	85	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Butyl benzyl phthalate	ND		310	45	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Caprolactam	ND		1500	170	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Carbazole	ND		220	120	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Chrysene	1600		30	4.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Dibenz(a,h)anthracene	180		30	2.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Dibenzofuran	33	J	220	2.9	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Diethyl phthalate	ND		310	71	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Dimethyl phthalate	ND		310	76	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Di-n-butyl phthalate	ND		310	67	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Di-n-octyl phthalate	ND		310	35	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Fluoranthene	2600		30	2.5	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Fluorene	110		30	2.4	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Hexachlorobenzene	ND		30	9.4	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Hexachlorobutadiene	ND		220	25	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Hexachlorocyclopentadiene	ND		1500	36	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Hexachloroethane	ND		220	40	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Indeno[1,2,3-cd]pyrene	730		30	1.6	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Isophorone	ND		220	58	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Naphthalene	62		30	3.7	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Nitrobenzene	ND		450	9.8	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
N-Nitrosodi-n-propylamine	ND		220	28	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
N-Nitrosodiphenylamine	ND		220	94	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Pentachlorophenol	ND		670	41	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Phenanthrene	1000		30	3.3	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Phenol	ND		220	33	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5
Pyrene	3200		30	2.0	ug/Kg	✱	12/18/13 07:36	12/20/13 13:55	2.5

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD72 (0.0-.05)

Lab Sample ID: 480-52121-7

Date Collected: 12/16/13 12:35

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 55.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		10 - 110	12/18/13 07:36	12/20/13 13:55	2.5
2-Fluorobiphenyl (Surr)	62		24 - 110	12/18/13 07:36	12/20/13 13:55	2.5
2-Fluorophenol (Surr)	59		24 - 110	12/18/13 07:36	12/20/13 13:55	2.5
Nitrobenzene-d5 (Surr)	56		20 - 110	12/18/13 07:36	12/20/13 13:55	2.5
Phenol-d5 (Surr)	64		26 - 110	12/18/13 07:36	12/20/13 13:55	2.5
Terphenyl-d14 (Surr)	86		36 - 110	12/18/13 07:36	12/20/13 13:55	2.5

Client Sample ID: SD72 (0.5-1.0)

Lab Sample ID: 480-52121-8

Date Collected: 12/16/13 12:35

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 58.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	24	J	86	6.0	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
1-Methylnaphthalene	22		11	1.4	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2,4,5-Trichlorophenol	ND		260	43	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2,4,6-Trichlorophenol	ND		260	15	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2,4-Dichlorophenol	ND		260	34	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2,4-Dimethylphenol	ND		260	34	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2,4-Dinitrophenol	ND		570	36	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2,4-Dinitrotoluene	ND		340	29	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2,6-Dinitrotoluene	ND		340	36	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2-Chloronaphthalene	ND		86	0.77	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2-Chlorophenol	ND		86	14	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2-Methylnaphthalene	31		11	0.86	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2-Methylphenol	ND		340	19	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2-Nitroaniline	ND		340	16	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
2-Nitrophenol	ND		86	14	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
3 & 4 Methylphenol	44	J	690	34	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
3,3'-Dichlorobenzidine	ND		170	31	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
3-Nitroaniline	ND		340	27	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
4,6-Dinitro-2-methylphenol	ND		260	16	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
4-Bromophenyl phenyl ether	ND		86	22	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
4-Chloro-3-methylphenol	ND		260	36	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
4-Chloroaniline	ND		260	29	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
4-Chlorophenyl phenyl ether	ND		86	22	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
4-Nitroaniline	ND		340	45	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
4-Nitrophenol	ND		570	29	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Acenaphthene	57		11	1.3	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Acenaphthylene	240		11	0.60	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Acetophenone	ND		170	16	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Anthracene	300		11	1.3	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Atrazine	ND		340	16	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Benzaldehyde	ND	*	170	21	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Benzo[a]anthracene	860		11	1.1	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Benzo[a]pyrene	940		11	1.1	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Benzo[b]fluoranthene	780		11	1.0	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Benzo[g,h,i]perylene	510		11	0.60	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
Benzo[k]fluoranthene	290		11	1.2	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1
bis (2-chloroisopropyl) ether	ND		170	16	ug/Kg	☆	12/18/13 07:36	12/20/13 14:46	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD72 (0.5-1.0)

Lab Sample ID: 480-52121-8

Date Collected: 12/16/13 12:35

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 58.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		170	38	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Bis(2-chloroethyl)ether	ND		170	3.4	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Bis(2-ethylhexyl) phthalate	87	J B	120	33	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Butyl benzyl phthalate	ND		120	17	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Caprolactam	ND		570	64	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Carbazole	ND		86	46	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Chrysene	810		11	1.9	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Dibenz(a,h)anthracene	120		11	1.1	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Dibenzofuran	14	J	86	1.1	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Diethyl phthalate	ND		120	27	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Dimethyl phthalate	ND		120	29	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Di-n-butyl phthalate	38	J B	120	26	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Di-n-octyl phthalate	ND		120	14	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Fluoranthene	1100		11	0.94	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Fluorene	33		11	0.91	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Hexachlorobenzene	ND		11	3.6	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Hexachlorobutadiene	ND		86	9.6	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Hexachlorocyclopentadiene	ND		570	14	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Hexachloroethane	ND		86	15	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Indeno[1,2,3-cd]pyrene	370		11	0.60	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Isophorone	ND		86	22	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Naphthalene	75		11	1.4	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Nitrobenzene	ND		170	3.8	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
N-Nitrosodi-n-propylamine	ND		86	11	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
N-Nitrosodiphenylamine	ND		86	36	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Pentachlorophenol	ND		260	16	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Phenanthrene	510		11	1.3	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Phenol	ND		86	13	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1
Pyrene	1700		11	0.76	ug/Kg	✱	12/18/13 07:36	12/20/13 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	51		10 - 110	12/18/13 07:36	12/20/13 14:46	1
2-Fluorobiphenyl (Surr)	58		24 - 110	12/18/13 07:36	12/20/13 14:46	1
2-Fluorophenol (Surr)	65		24 - 110	12/18/13 07:36	12/20/13 14:46	1
Nitrobenzene-d5 (Surr)	60		20 - 110	12/18/13 07:36	12/20/13 14:46	1
Phenol-d5 (Surr)	67		26 - 110	12/18/13 07:36	12/20/13 14:46	1
Terphenyl-d14 (Surr)	79		36 - 110	12/18/13 07:36	12/20/13 14:46	1

Client Sample ID: SD72 (1.0--2.0)

Lab Sample ID: 480-52121-9

Date Collected: 12/16/13 12:35

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 56.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		89	6.3	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
1-Methylnaphthalene	32		12	1.4	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2,4,5-Trichlorophenol	ND		270	45	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2,4,6-Trichlorophenol	ND		270	16	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2,4-Dichlorophenol	ND		270	36	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2,4-Dimethylphenol	ND		270	36	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD72 (1.0--2.0)

Lab Sample ID: 480-52121-9

Date Collected: 12/16/13 12:35

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 56.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		590	38	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2,4-Dinitrotoluene	ND		360	30	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2,6-Dinitrotoluene	ND		360	38	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2-Chloronaphthalene	ND		89	0.81	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2-Chlorophenol	ND		89	15	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2-Methylnaphthalene	28		12	0.89	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2-Methylphenol	ND		360	20	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2-Nitroaniline	ND		360	16	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
2-Nitrophenol	ND		89	15	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
3 & 4 Methylphenol	39	J	720	36	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
3,3'-Dichlorobenzidine	ND		180	32	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
3-Nitroaniline	ND		360	29	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
4,6-Dinitro-2-methylphenol	ND		270	16	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
4-Bromophenyl phenyl ether	ND		89	23	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
4-Chloro-3-methylphenol	ND		270	38	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
4-Chloroaniline	ND		270	30	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
4-Chlorophenyl phenyl ether	ND		89	23	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
4-Nitroaniline	ND		360	47	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
4-Nitrophenol	ND		590	30	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Acenaphthene	63		12	1.4	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Acenaphthylene	16		12	0.63	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Acetophenone	ND		180	16	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Anthracene	96		12	1.4	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Atrazine	ND		360	16	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Benzaldehyde	ND		180	21	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Benzo[a]anthracene	280		12	1.1	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Benzo[a]pyrene	220		12	1.1	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Benzo[b]fluoranthene	240		12	1.1	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Benzo[g,h,i]perylene	97		12	0.63	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Benzo[k]fluoranthene	120		12	1.2	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
bis (2-chloroisopropyl) ether	ND		180	17	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Bis(2-chloroethoxy)methane	ND		180	39	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Bis(2-chloroethyl)ether	ND		180	3.6	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Bis(2-ethylhexyl) phthalate	59	J B	130	34	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Butyl benzyl phthalate	ND		130	18	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Caprolactam	ND		590	66	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Carbazole	ND		89	48	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Chrysene	260		12	2.0	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Dibenz(a,h)anthracene	33		12	1.2	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Dibenzofuran	14	J	89	1.2	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Diethyl phthalate	ND		130	29	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Dimethyl phthalate	ND		130	30	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Di-n-butyl phthalate	31	J B	130	27	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Di-n-octyl phthalate	ND		130	14	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Fluoranthene	400		12	0.98	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Fluorene	42		12	0.95	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Hexachlorobenzene	ND		12	3.8	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Hexachlorobutadiene	ND		89	10	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Hexachlorocyclopentadiene	ND		590	14	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Orange & Rockland - Nyack Pre-Characteri

TestAmerica Job ID: 480-52121-1

Client Sample ID: SD72 (1.0--2.0)

Lab Sample ID: 480-52121-9

Date Collected: 12/16/13 12:35

Matrix: Solid

Date Received: 12/17/13 10:10

Percent Solids: 56.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		89	16	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Indeno[1,2,3-cd]pyrene	93		12	0.63	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Isophorone	ND		89	23	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Naphthalene	100		12	1.5	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Nitrobenzene	ND		180	3.9	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
N-Nitrosodi-n-propylamine	ND		89	11	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
N-Nitrosodiphenylamine	ND		89	38	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Pentachlorophenol	ND		270	16	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Phenanthrene	150		12	1.3	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Phenol	21	J	89	13	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Pyrene	380		12	0.79	ug/Kg	✱	12/18/13 07:36	12/20/13 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		10 - 110				12/18/13 07:36	12/20/13 15:35	1
2-Fluorobiphenyl (Surr)	63		24 - 110				12/18/13 07:36	12/20/13 15:35	1
2-Fluorophenol (Surr)	67		24 - 110				12/18/13 07:36	12/20/13 15:35	1
Nitrobenzene-d5 (Surr)	64		20 - 110				12/18/13 07:36	12/20/13 15:35	1
Phenol-d5 (Surr)	70		26 - 110				12/18/13 07:36	12/20/13 15:35	1
Terphenyl-d14 (Surr)	87		36 - 110				12/18/13 07:36	12/20/13 15:35	1

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