Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

June 13, 2018

SDG I.D.: GCA61367

ICPMS Metals Narration

Instrument:

ICPMS 06/01/18 16:00 Cindy Pearce, Chemist 06/01/18

CA61367

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following samples did not meet internal standard criteria: None.

QC (Batch Specific):

Batch 432747 (CA61339)

CA61367

All LCS recoveries were within 75 - 125 with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 433113 (Samples: CA61367): -----

The LCSD recovery is below the method criteria. The LCS recovery is acceptable. A slight low bias is possible. (Benzyl butyl phthalate)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes. These analytes were not reported in the sample(s). A slight variability is possible. (1,2-Diphenylhydrazine, Benzoic acid, Benzyl butyl phthalate, N-Nitrosodiphenylamine, % Phenol-d5)

Instrument:

CHEM27 06/07/18-1 Damien Drobinski, Chemist 06/07/18

CA61367

Initial Calibration Verification (CHEM27/SPLIT_0518):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 22% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0607_02-SPLIT_0518):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 433113 (CA63410)

CA61367

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RCP Certification Report

June 13, 2018

SDG I.D.: GCA61367

SVOA Narration

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: Benzyl butyl phthalate(24%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: % Phenol-d5(70.4%), 1,2-Diphenylhydrazine(84.2%), Benzoic acid(43.7%), Benzyl butyl phthalate(110.3%), N-Nitrosodiphenylamine(23.6%)
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 433113 (Samples: CA61367): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes. This analyte was not reported in the sample(s). No significant variability is suspected. (Benzo(a)pyrene, % Phenol-d5)

Instrument:

CHEM25 06/06/18-1 Damien Drobinski, Chemist 06/06/18

CA61367

Initial Calibration Verification (CHEM25/SIM_0410):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Hexachloroethane 0.265 (0.3)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM25/0606_02-SIM_0410):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 433113 (CA63410)

CA61367

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: % Phenol-d5(56.7%), Benzo(a)pyrene(43.0%)
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

June 13, 2018

SDG I.D.: GCA61367

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 433254 (Samples: CA61367): -----

The LCS/LCSD recovery for one analyte is below the lower range but within the method criteria. A low bias for this analyte is possible. (Acetone)

The LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Dichlorodifluoromethane)

The LCSD recovery is below the lower range but within the method criteria. The LCS recovery is acceptable. No significant bias is suspected. (Methyl ethyl ketone, Tetrahydrofuran (THF))

Instrument:

CHEM17 06/04/18-1 Michael Hahn, Chemist 06/04/18

CA61367

Initial Calibration Verification (CHEM17/VT-S0603):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 40% (20%), Acetone 28% (20%), Methyl ethyl ketone 27% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.036 (0.05), Acetone 0.068 (0.1), Methyl ethyl ketone 0.091 (0.1), Tetrahydrofuran (THF) 0.048 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/0604_02-VT-S0603):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.036 (0.05), Tetrahydrofuran (THF) 0.039 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 433254 (CA61344)

CA61367

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(55%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(55%), Dichlorodifluoromethane(136%), Methyl ethyl ketone(59%), Tetrahydrofuran (THF)(69%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 3.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

Temp 3.2 °C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: LEWilley@tighebond.com

Customer: Tighe + Bond
Address: 213 Court St
Suite 1100
Middletown CT

Project: Rockville mgp
Report to: Lynn Willey
Invoice to: Tighe + Bond

Project P.O: 14075.5413

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 5/31/14

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC	SVOC	TPH	RCRA Metals	Cyanide	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
61367	MW-7D	GW	5/31/14	07:45	X	X	X	X	X					3	3			1	1		

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5/31/14	0847

Comments, Special Requirements or Regulations:
Eversource DAS pricing

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[X] RCP Cert
[ ] GW Protection
[X] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[X] Other RES VC

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[X] Other E-edocs

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 17
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PHOENIX
Environmental Laboratories, Inc.

Wednesday, May 23, 2018

Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: ROCKVILLE MGP
Sample ID#s: CA48712 - CA48718

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

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Analysis Report

May 23, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/16/18	9:35
Location Code:	TIGHE-DAS	Received by:	B	05/16/18	18:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-0445				

Laboratory Data

SDG ID: GCA48712
Phoenix ID: CA48712

Project ID: ROCKVILLE MGP
Client ID: MW-17S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/18/18	MA	SW6010C
Barium	0.016	0.002	mg/L	1	05/18/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/17/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	05/21/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/18/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/18/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Zinc	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/21/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/16/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/17/18	Q/Q	SW7470A
Semi-Volatile Extraction	Completed				05/16/18	P/D/RD	SW3520C
Total Metals Digestion	Completed				05/17/18	AG	
Total Metals Digestion MS	Completed				05/17/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.070	0.067	mg/L	1	05/17/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	05/17/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	05/17/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-17S

Phoenix I.D.: CA48712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/17/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/17/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-17S

Phoenix I.D.: CA48712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrachloroethene	5.2	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/17/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	05/17/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	05/17/18	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	05/17/18	MH	70 - 130 %
% Toluene-d8	94		%	1	05/17/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/19/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/19/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/19/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/19/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-17S

Phoenix I.D.: CA48712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/19/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	103		%	1	05/19/18	DD	15 - 110 %
% 2-Fluorobiphenyl	77		%	1	05/19/18	DD	30 - 130 %
% 2-Fluorophenol	49		%	1	05/19/18	DD	15 - 110 %
% Nitrobenzene-d5	70		%	1	05/19/18	DD	30 - 130 %
% Phenol-d5	59		%	1	05/19/18	DD	15 - 110 %
% Terphenyl-d14	79		%	1	05/19/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-17S

Phoenix I.D.: CA48712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/18/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	93		%	1	05/18/18	DD	15 - 110 %
% 2-Fluorobiphenyl	67		%	1	05/18/18	DD	30 - 130 %
% 2-Fluorophenol	51		%	1	05/18/18	DD	15 - 110 %
% Nitrobenzene-d5	86		%	1	05/18/18	DD	30 - 130 %
% Phenol-d5	68		%	1	05/18/18	DD	15 - 110 %
% Terphenyl-d14	81		%	1	05/18/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 23, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 23, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/16/18	10:10
Location Code:	TIGHE-DAS	Received by:	B	05/16/18	18:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-0445				

Laboratory Data

SDG ID: GCA48712
Phoenix ID: CA48713

Project ID: ROCKVILLE MGP
Client ID: MW-5S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/18/18	MA	SW6010C
Barium	0.079	0.002	mg/L	1	05/18/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/17/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	05/21/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/18/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/18/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Zinc	0.013	0.002	mg/L	1	05/18/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/21/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/16/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/17/18	Q/Q	SW7470A
Semi-Volatile Extraction	Completed				05/16/18	P/D/RD	SW3520C
Total Metals Digestion	Completed				05/17/18	AG	
Total Metals Digestion MS	Completed				05/17/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.34	0.067	mg/L	1	05/17/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	05/17/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	05/17/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-5S

Phoenix I.D.: CA48713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/17/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/17/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-5S

Phoenix I.D.: CA48713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Naphthalene	2.7	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/17/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	05/17/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	05/17/18	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	05/17/18	MH	70 - 130 %
% Toluene-d8	93		%	1	05/17/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/19/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/19/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/19/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/19/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-5S

Phoenix I.D.: CA48713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/19/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	97		%	1	05/19/18	DD	15 - 110 %
% 2-Fluorobiphenyl	73		%	1	05/19/18	DD	30 - 130 %
% 2-Fluorophenol	43		%	1	05/19/18	DD	15 - 110 %
% Nitrobenzene-d5	64		%	1	05/19/18	DD	30 - 130 %
% Phenol-d5	54		%	1	05/19/18	DD	15 - 110 %
% Terphenyl-d14	79		%	1	05/19/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthene	5.5	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthylene	1.9	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Anthracene	1.8	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benz(a)anthracene	0.27	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Chrysene	0.27	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenzofuran	0.68	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluoranthene	1.5	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluorene	5.1	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-5S

Phoenix I.D.: CA48713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Naphthalene	1.9	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/18/18	DD	SW8270D (SIM)
Phenanthrene	0.89	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyrene	2.3	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	88		%	1	05/18/18	DD	15 - 110 %
% 2-Fluorobiphenyl	62		%	1	05/18/18	DD	30 - 130 %
% 2-Fluorophenol	44		%	1	05/18/18	DD	15 - 110 %
% Nitrobenzene-d5	77		%	1	05/18/18	DD	30 - 130 %
% Phenol-d5	60		%	1	05/18/18	DD	15 - 110 %
% Terphenyl-d14	75		%	1	05/18/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
May 23, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 23, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/16/18	12:00
Location Code:	TIGHE-DAS	Received by:	B	05/16/18	18:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-0445				

Laboratory Data

SDG ID: GCA48712
Phoenix ID: CA48714

Project ID: ROCKVILLE MGP
Client ID: MW-5D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/18/18	MA	SW6010C
Barium	0.125	0.002	mg/L	1	05/18/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Chromium	0.013	0.001	mg/L	1	05/18/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/17/18	RS	SW7470A
Nickel	0.009	0.001	mg/L	1	05/21/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/18/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/18/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Zinc	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/21/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/16/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/17/18	Q/Q	SW7470A
Semi-Volatile Extraction	Completed				05/16/18	P/D/RD	SW3520C
Total Metals Digestion	Completed				05/17/18	AG	
Total Metals Digestion MS	Completed				05/17/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.074	0.066	mg/L	1	05/17/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	05/17/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	05/17/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-5D

Phoenix I.D.: CA48714

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/17/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/17/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-5D

Phoenix I.D.: CA48714

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/17/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	05/17/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	05/17/18	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	05/17/18	MH	70 - 130 %
% Toluene-d8	93		%	1	05/17/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/19/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/19/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/19/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/19/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-5D

Phoenix I.D.: CA48714

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/19/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/19/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/19/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	05/19/18	DD	15 - 110 %
% 2-Fluorobiphenyl	80		%	1	05/19/18	DD	30 - 130 %
% 2-Fluorophenol	39		%	1	05/19/18	DD	15 - 110 %
% Nitrobenzene-d5	72		%	1	05/19/18	DD	30 - 130 %
% Phenol-d5	48		%	1	05/19/18	DD	15 - 110 %
% Terphenyl-d14	84		%	1	05/19/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-5D

Phoenix I.D.: CA48714

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/18/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	79		%	1	05/18/18	DD	15 - 110 %
% 2-Fluorobiphenyl	68		%	1	05/18/18	DD	30 - 130 %
% 2-Fluorophenol	40		%	1	05/18/18	DD	15 - 110 %
% Nitrobenzene-d5	84		%	1	05/18/18	DD	30 - 130 %
% Phenol-d5	55		%	1	05/18/18	DD	15 - 110 %
% Terphenyl-d14	82		%	1	05/18/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 23, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 23, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/16/18	13:45
Location Code:	TIGHE-DAS	Received by:	B	05/16/18	18:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-0445				

Laboratory Data

SDG ID: GCA48712
Phoenix ID: CA48715

Project ID: ROCKVILLE MGP
Client ID: MW-8SR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/18/18	MA	SW6010C
Barium	0.056	0.002	mg/L	1	05/18/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Chromium	0.003	0.001	mg/L	1	05/18/18	MA	SW6010C
Copper	0.008	0.005	mg/L	1	05/18/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/17/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	05/21/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/18/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/18/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Zinc	0.011	0.002	mg/L	1	05/18/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/21/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/16/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/17/18	Q/Q	SW7470A
Semi-Volatile Extraction	Completed				05/16/18	P/D/RD	SW3520C
Total Metals Digestion	Completed				05/17/18	AG	
Total Metals Digestion MS	Completed				05/17/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	05/18/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/18/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	05/18/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-8SR

Phoenix I.D.: CA48715

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/17/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/17/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-8SR

Phoenix I.D.: CA48715

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/17/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	05/17/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	05/17/18	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	05/17/18	MH	70 - 130 %
% Toluene-d8	92		%	1	05/17/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/21/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/21/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/21/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/21/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-8SR

Phoenix I.D.: CA48715

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/21/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	80		%	1	05/21/18	DD	15 - 110 %
% 2-Fluorobiphenyl	76		%	1	05/21/18	DD	30 - 130 %
% 2-Fluorophenol	37		%	1	05/21/18	DD	15 - 110 %
% Nitrobenzene-d5	61		%	1	05/21/18	DD	30 - 130 %
% Phenol-d5	42		%	1	05/21/18	DD	15 - 110 %
% Terphenyl-d14	93		%	1	05/21/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthylene	0.41	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Anthracene	0.13	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benz(a)anthracene	0.44	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(a)pyrene	1.1	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.72	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	1.1	0.19	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.72	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Chrysene	0.55	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.26	0.01	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluoranthene	0.39	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-8SR

Phoenix I.D.: CA48715

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.78	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/18/18	DD	SW8270D (SIM)
Phenanthrene	0.09	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyrene	0.93	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	87		%	1	05/18/18	DD	15 - 110 %
% 2-Fluorobiphenyl	69		%	1	05/18/18	DD	30 - 130 %
% 2-Fluorophenol	50		%	1	05/18/18	DD	15 - 110 %
% Nitrobenzene-d5	94		%	1	05/18/18	DD	30 - 130 %
% Phenol-d5	69		%	1	05/18/18	DD	15 - 110 %
% Terphenyl-d14	80		%	1	05/18/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 23, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 23, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/16/18	14:45
Location Code:	TIGHE-DAS	Received by:	B	05/16/18	18:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-0445				

Laboratory Data

SDG ID: GCA48712
Phoenix ID: CA48716

Project ID: ROCKVILLE MGP
Client ID: MW-2SR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/18/18	MA	SW6010C
Barium	0.121	0.002	mg/L	1	05/18/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/17/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	05/21/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/18/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/18/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Zinc	0.004	0.002	mg/L	1	05/18/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/21/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/17/18	P/R	SW3510C/SW3520C
Mercury Digestion	Completed				05/17/18	Q/Q	SW7470A
Semi-Volatile Extraction	Completed				05/16/18	P/D/RD	SW3520C
Total Metals Digestion	Completed				05/17/18	AG	
Total Metals Digestion MS	Completed				05/17/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/18/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/18/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	05/18/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-2SR

Phoenix I.D.: CA48716

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/17/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/17/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C

Ver 1

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Naphthalene	4.6	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/17/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	05/17/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	05/17/18	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	05/17/18	MH	70 - 130 %
% Toluene-d8	93		%	1	05/17/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/21/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/21/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/21/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/21/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D

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Project ID: ROCKVILLE MGP
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/21/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	81		%	1	05/21/18	DD	15 - 110 %
% 2-Fluorobiphenyl	75		%	1	05/21/18	DD	30 - 130 %
% 2-Fluorophenol	46		%	1	05/21/18	DD	15 - 110 %
% Nitrobenzene-d5	75		%	1	05/21/18	DD	30 - 130 %
% Phenol-d5	51		%	1	05/21/18	DD	15 - 110 %
% Terphenyl-d14	90		%	1	05/21/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
2-Methylnaphthalene	1.3	0.94	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthene	1.2	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthylene	1.3	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Anthracene	0.92	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benz(a)anthracene	0.43	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(a)pyrene	0.41	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.22	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.32	0.19	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.23	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Chrysene	0.43	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.06	0.01	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenzofuran	0.19	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluoranthene	1.7	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluorene	1.6	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-2SR

Phoenix I.D.: CA48716

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.20	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Naphthalene	3.6	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/18/18	DD	SW8270D (SIM)
Phenanthrene	3.4	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyrene	2.4	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	91		%	1	05/18/18	DD	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	05/18/18	DD	30 - 130 %
% 2-Fluorophenol	57		%	1	05/18/18	DD	15 - 110 %
% Nitrobenzene-d5	100		%	1	05/18/18	DD	30 - 130 %
% Phenol-d5	77		%	1	05/18/18	DD	15 - 110 %
% Terphenyl-d14	73		%	1	05/18/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 23, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 23, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/16/18	16:35
Location Code:	TIGHE-DAS	Received by:	B	05/16/18	18:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-0445				

Laboratory Data

SDG ID: GCA48712
Phoenix ID: CA48717

Project ID: ROCKVILLE MGP
Client ID: MW-2BR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/18/18	MA	SW6010C
Barium	0.365	0.002	mg/L	1	05/18/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	05/18/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/17/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	05/21/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/18/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/18/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/18/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Zinc	< 0.002	0.002	mg/L	1	05/18/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/21/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/17/18	P/R	SW3510C/SW3520C
Mercury Digestion	Completed				05/17/18	Q/Q	SW7470A
Semi-Volatile Extraction	Completed				05/16/18	P/D/RD	SW3520C
Total Metals Digestion	Completed				05/17/18	AG	
Total Metals Digestion MS	Completed				05/17/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/18/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/18/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	05/18/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-2BR

Phoenix I.D.: CA48717

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/17/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/17/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/17/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/17/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
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Phoenix I.D.: CA48717

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/17/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/17/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/17/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/17/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	05/17/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	05/17/18	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	05/17/18	MH	70 - 130 %
% Toluene-d8	93		%	1	05/17/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/21/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/21/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/21/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/21/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D

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Project ID: ROCKVILLE MGP
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Phoenix I.D.: CA48717

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/21/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/21/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/21/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	81		%	1	05/21/18	DD	15 - 110 %
% 2-Fluorobiphenyl	65		%	1	05/21/18	DD	30 - 130 %
% 2-Fluorophenol	37		%	1	05/21/18	DD	15 - 110 %
% Nitrobenzene-d5	58		%	1	05/21/18	DD	30 - 130 %
% Phenol-d5	43		%	1	05/21/18	DD	15 - 110 %
% Terphenyl-d14	86		%	1	05/21/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/18/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/18/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
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Phoenix I.D.: CA48717

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/18/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/18/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/18/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	90		%	1	05/18/18	DD	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	05/18/18	DD	30 - 130 %
% 2-Fluorophenol	47		%	1	05/18/18	DD	15 - 110 %
% Nitrobenzene-d5	82		%	1	05/18/18	DD	30 - 130 %
% Phenol-d5	69		%	1	05/18/18	DD	15 - 110 %
% Terphenyl-d14	76		%	1	05/18/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 23, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 23, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/16/18	
Location Code:	TIGHE-DAS	Received by:	B	05/16/18	18:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-0445				

Laboratory Data

SDG ID: GCA48712
Phoenix ID: CA48718

Project ID: ROCKVILLE MGP
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/16/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/16/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/16/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/16/18	MH	SW8260C

Project ID: ROCKVILLE MGP
Client ID: TRIP BLANK

Phoenix I.D.: CA48718

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	05/16/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/16/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/16/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/16/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/16/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/16/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/16/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/16/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/16/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/16/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/16/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/16/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	05/16/18	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	05/16/18	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	05/16/18	MH	70 - 130 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: TRIP BLANK

Phoenix I.D.: CA48718

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	93		%	1	05/16/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 23, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 23, 2018

QA/QC Data

SDG I.D.: GCA48712

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 430967 (mg/L), QC Sample No: CA48619 5X (CA48712, CA48713, CA48714, CA48715, CA48716, CA48717)													
ICP MS Metals - Aqueous													
Thallium	BRL	0.0015	<0.0005	<0.0005	NC	104			104			75 - 125	20
QA/QC Batch 430825 (mg/L), QC Sample No: CA48714 (CA48712, CA48713, CA48714, CA48715, CA48716, CA48717)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	89.3			92.1			80 - 120	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 430969 (mg/L), QC Sample No: CA49065 (CA48712, CA48713, CA48714, CA48715, CA48716, CA48717)													
ICP Metals - Aqueous													
Antimony	BRL	0.0025	<0.005	<0.005	NC	97.9			104			75 - 125	20
Arsenic	BRL	0.0020	<0.004	<0.004	NC	93.9			101			75 - 125	20
Barium	BRL	0.0010	0.011	0.011	0	97.2			105			75 - 125	20
Beryllium	BRL	0.0005	<0.001	<0.001	NC	97.7			105			75 - 125	20
Cadmium	BRL	0.0005	<0.001	<0.001	NC	95.0			103			75 - 125	20
Chromium	BRL	0.0005	<0.001	<0.001	NC	98.2			103			75 - 125	20
Copper	BRL	0.0025	<0.005	<0.005	NC	102			105			75 - 125	20
Lead	BRL	0.0010	<0.002	<0.002	NC	97.7			105			75 - 125	20
Nickel	BRL	0.001	0.006	0.006	0	95.1			103			75 - 125	20
Selenium	BRL	0.0050	<0.010	<0.010	NC	89.1			99.3			75 - 125	20
Silver	BRL	0.0005	<0.001	<0.001	NC	95.4			102			75 - 125	20
Vanadium	BRL	0.0010	<0.002	<0.002	NC	97.0			102			75 - 125	20
Zinc	BRL	0.0010	0.014	0.014	0	95.6			104			75 - 125	20

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QA/QC Report

May 23, 2018

QA/QC Data

SDG I.D.: GCA48712

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 431026 (mg/L), QC Sample No: CA48712 (CA48712, CA48713, CA48714, CA48715, CA48716, CA48717)														
Total Cyanide	BRL	0.010	<0.010	<0.010	NC	99.5			112			90 - 110	20	m
Comment:														
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils														

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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QA/QC Report

May 23, 2018

QA/QC Data

SDG I.D.: GCA48712

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 430703 (mg/L), QC Sample No: CA48435 (CA48712, CA48713, CA48714, CA48715)										
TPH by GC (Extractable Products) - Ground Water										
Ext. Petroleum H.C. (C9-C36)	ND	0.10	92	92	0.0				60 - 120	30
% n-Pentacosane	86	%	80	78	2.5				50 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 430789 (ug/L), QC Sample No: CA48617 (CA48712, CA48713, CA48714, CA48715, CA48716, CA48717)										
Semivolatiles (SIM) - Ground Water										
1,2,4,5-Tetrachlorobenzene	ND	0.50	64	63	1.6				30 - 130	20
2-Methylnaphthalene	ND	0.02	62	59	5.0				30 - 130	20
Acenaphthene	ND	0.02	72	72	0.0				30 - 130	20
Acenaphthylene	ND	0.02	64	67	4.6				30 - 130	20
Anthracene	ND	0.02	69	73	5.6				30 - 130	20
Benz(a)anthracene	ND	0.02	76	80	5.1				30 - 130	20
Benzo(a)pyrene	ND	0.02	69	77	11.0				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	75	82	8.9				30 - 130	20
Benzo(ghi)perylene	ND	0.02	65	69	6.0				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	76	88	14.6				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	0.10	87	87	0.0				30 - 130	20
Chrysene	ND	0.02	82	84	2.4				30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	71	83	15.6				30 - 130	20
Dibenzofuran	ND	0.05	71	72	1.4				30 - 130	20
Fluoranthene	ND	0.02	73	66	10.1				30 - 130	20
Fluorene	ND	0.02	72	73	1.4				30 - 130	20
Hexachlorobenzene	ND	0.02	78	78	0.0				30 - 130	20
Hexachlorobutadiene	ND	0.05	56	50	11.3				30 - 130	20
Hexachlorocyclopentadiene	ND	0.05	35	38	8.2				30 - 130	20
Hexachloroethane	ND	0.05	53	44	18.6				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	68	77	12.4				30 - 130	20
Naphthalene	ND	0.02	58	54	7.1				30 - 130	20
Nitrobenzene	ND	0.05	66	61	7.9				30 - 130	20
Pentachloronitrobenzene	ND	0.10	94	93	1.1				30 - 130	20
Pentachlorophenol	ND	0.20	98	102	4.0				30 - 130	20
Phenanthrene	ND	0.02	76	77	1.3				30 - 130	20
Pyrene	ND	0.02	77	78	1.3				30 - 130	20
Pyridine	ND	0.50	18	20	10.5				30 - 130	20
% 2,4,6-Tribromophenol	88	%	94	96	2.1				15 - 110	20
% 2-Fluorobiphenyl	73	%	71	70	1.4				30 - 130	20
% 2-Fluorophenol	60	%	42	35	18.2				15 - 110	20
% Nitrobenzene-d5	73	%	63	58	8.3				30 - 130	20

QA/QC Data

SDG I.D.: GCA48712

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Phenol-d5	66	%		44	41	7.1				15 - 110	20	
% Terphenyl-d14	77	%		76	78	2.6				30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 430789 (ug/L), QC Sample No: CA48617 (CA48712, CA48713, CA48714, CA48715, CA48716, CA48717)

Semivolatiles - Ground Water

1,2,4-Trichlorobenzene	ND	3.5		67	60	11.0				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0		61	48	23.9				30 - 130	20	r
1,2-Diphenylhydrazine	ND	1.6		85	92	7.9				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0		58	46	23.1				30 - 130	20	r
1,4-Dichlorobenzene	ND	1.0		58	47	21.0				30 - 130	20	r
2,4,5-Trichlorophenol	ND	1.0		87	92	5.6				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0		83	87	4.7				30 - 130	20	
2,4-Dichlorophenol	ND	1.0		74	72	2.7				30 - 130	20	
2,4-Dimethylphenol	ND	1.0		75	74	1.3				30 - 130	20	
2,4-Dinitrophenol	ND	1.0		58	59	1.7				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5		100	105	4.9				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5		91	94	3.2				30 - 130	20	
2-Chloronaphthalene	ND	3.5		73	73	0.0				30 - 130	20	
2-Chlorophenol	ND	1.0		58	48	18.9				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0		63	58	8.3				30 - 130	20	
2-Nitroaniline	ND	3.5		134	145	7.9				30 - 130	20	I
2-Nitrophenol	ND	1.0		77	74	4.0				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0		64	60	6.5				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0		95	107	11.9				30 - 130	20	
3-Nitroaniline	ND	5.0		89	102	13.6				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0		103	112	8.4				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5		84	91	8.0				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0		86	91	5.6				30 - 130	20	
4-Chloroaniline	ND	3.5		33	66	66.7				30 - 130	20	r
4-Chlorophenyl phenyl ether	ND	1.0		81	81	0.0				30 - 130	20	
4-Nitroaniline	ND	5.0		89	90	1.1				30 - 130	20	
4-Nitrophenol	ND	1.0		96	102	6.1				15 - 130	20	
Acetophenone	ND	3.5		71	63	11.9				30 - 130	20	
Aniline	ND	3.5		<10	30	NC				30 - 130	20	I
Benzidine	ND	4.5		<10	16	NC				30 - 130	20	I
Benzoic acid	ND	10		80	76	5.1				30 - 130	20	
Benzyl butyl phthalate	ND	1.5		103	106	2.9				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.5		66	67	1.5				30 - 130	20	
Bis(2-chloroethyl)ether	ND	1.0		53	44	18.6				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	1.0		51	44	14.7				30 - 130	20	
Carbazole	ND	5.0		91	95	4.3				30 - 130	20	
Diethyl phthalate	ND	1.5		98	99	1.0				30 - 130	20	
Dimethylphthalate	ND	1.5		88	93	5.5				30 - 130	20	
Di-n-butylphthalate	ND	1.5		97	102	5.0				30 - 130	20	
Di-n-octylphthalate	ND	1.5		112	118	5.2				30 - 130	20	
Isophorone	ND	3.5		69	71	2.9				30 - 130	20	
N-Nitrosodimethylamine	ND	1.0		56	44	24.0				30 - 130	20	r
N-Nitrosodi-n-propylamine	ND	3.5		71	65	8.8				30 - 130	20	
N-Nitrosodiphenylamine	ND	3.5		83	86	3.6				30 - 130	20	
Phenol	ND	1.0		50	47	6.2				15 - 130	20	

QA/QC Data

SDG I.D.: GCA48712

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% 2,4,6-Tribromophenol	90	%		90	97	7.5				15 - 110	20	
% 2-Fluorobiphenyl	76	%		77	77	0.0				30 - 130	20	
% 2-Fluorophenol	50	%		43	35	20.5				15 - 110	20	
% Nitrobenzene-d5	68	%		67	60	11.0				30 - 130	20	
% Phenol-d5	61	%		48	44	8.7				15 - 110	20	
% Terphenyl-d14	84	%		84	92	9.1				30 - 130	20	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 430854 (ug/L), QC Sample No: CA48618 (CA48712, CA48713, CA48714, CA48715, CA48716, CA48717, CA48718)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0		92	96	4.3				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0		90	94	4.3				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50		90	100	10.5				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0		84	84	0.0				70 - 130	30	
1,1-Dichloroethane	ND	1.0		91	94	3.2				70 - 130	30	
1,1-Dichloroethene	ND	1.0		96	96	0.0				70 - 130	30	
1,1-Dichloropropene	ND	1.0		91	81	11.6				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0		87	98	11.9				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0		85	94	10.1				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0		90	99	9.5				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0		94	94	0.0				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0		93	108	14.9				70 - 130	30	
1,2-Dibromoethane	ND	1.0		86	95	9.9				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0		91	96	5.3				70 - 130	30	
1,2-Dichloroethane	ND	1.0		86	81	6.0				70 - 130	30	
1,2-Dichloropropane	ND	1.0		91	85	6.8				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0		93	93	0.0				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0		92	95	3.2				70 - 130	30	
1,3-Dichloropropane	ND	1.0		85	93	9.0				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0		91	94	3.2				70 - 130	30	
2,2-Dichloropropane	ND	1.0		92	94	2.2				70 - 130	30	
2-Chlorotoluene	ND	1.0		94	94	0.0				70 - 130	30	
2-Hexanone	ND	5.0		75	91	19.3				70 - 130	30	
2-Isopropyltoluene	ND	1.0		93	96	3.2				70 - 130	30	
4-Chlorotoluene	ND	1.0		93	93	0.0				70 - 130	30	
4-Methyl-2-pentanone	ND	5.0		75	83	10.1				70 - 130	30	
Acetone	ND	5.0		61	84	31.7				70 - 130	30	l,r
Acrylonitrile	ND	5.0		83	96	14.5				70 - 130	30	
Benzene	ND	0.70		89	80	10.7				70 - 130	30	
Bromobenzene	ND	1.0		95	97	2.1				70 - 130	30	
Bromochloromethane	ND	1.0		87	94	7.7				70 - 130	30	
Bromodichloromethane	ND	0.50		92	88	4.4				70 - 130	30	
Bromoform	ND	1.0		88	102	14.7				70 - 130	30	
Bromomethane	ND	1.0		113	115	1.8				70 - 130	30	
Carbon Disulfide	ND	1.0		103	104	1.0				70 - 130	30	
Carbon tetrachloride	ND	1.0		91	93	2.2				70 - 130	30	
Chlorobenzene	ND	1.0		89	92	3.3				70 - 130	30	
Chloroethane	ND	1.0		98	98	0.0				70 - 130	30	
Chloroform	ND	1.0		89	93	4.4				70 - 130	30	
Chloromethane	ND	1.0		98	102	4.0				70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0		91	95	4.3				70 - 130	30	

QA/QC Data

SDG I.D.: GCA48712

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	0.40	88	85	3.5				70 - 130	30
Dibromochloromethane	ND	0.50	94	101	7.2				70 - 130	30
Dibromomethane	ND	1.0	90	89	1.1				70 - 130	30
Dichlorodifluoromethane	ND	1.0	104	104	0.0				70 - 130	30
Ethylbenzene	ND	1.0	90	93	3.3				70 - 130	30
Hexachlorobutadiene	ND	0.40	99	96	3.1				70 - 130	30
Isopropylbenzene	ND	1.0	90	91	1.1				70 - 130	30
m&p-Xylene	ND	1.0	88	91	3.4				70 - 130	30
Methyl ethyl ketone	ND	5.0	80	90	11.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	87	103	16.8				70 - 130	30
Methylene chloride	ND	1.0	87	92	5.6				70 - 130	30
Naphthalene	ND	1.0	91	103	12.4				70 - 130	30
n-Butylbenzene	ND	1.0	87	92	5.6				70 - 130	30
n-Propylbenzene	ND	1.0	89	91	2.2				70 - 130	30
o-Xylene	ND	1.0	90	93	3.3				70 - 130	30
p-Isopropyltoluene	ND	1.0	88	92	4.4				70 - 130	30
sec-Butylbenzene	ND	1.0	86	93	7.8				70 - 130	30
Styrene	ND	1.0	91	94	3.2				70 - 130	30
tert-Butylbenzene	ND	1.0	87	91	4.5				70 - 130	30
Tetrachloroethene	ND	1.0	88	82	7.1				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	76	92	19.0				70 - 130	30
Toluene	ND	1.0	91	83	9.2				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	94	98	4.2				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	84	83	1.2				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	95	104	9.0				70 - 130	30
Trichloroethene	ND	1.0	92	95	3.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	95	95	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	96	96	0.0				70 - 130	30
Vinyl chloride	ND	1.0	98	98	0.0				70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	99	102	3.0				70 - 130	30
% Bromofluorobenzene	98	%	95	98	3.1				70 - 130	30
% Dibromofluoromethane	101	%	94	99	5.2				70 - 130	30
% Toluene-d8	93	%	101	89	12.6				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 430973 (mg/L), QC Sample No: CA48716 (CA48716, CA48717)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	84	85	1.2				60 - 120	30
% n-Pentacosane	76	%	77	77	0.0				50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

QA/QC Data

SDG I.D.: GCA48712

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 23, 2018

Wednesday, May 23, 2018

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GCA48712 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA48713	$8270-CTSIMR	Dibenzofuran	CT / RSR SWPC (ug/l) / Semivolatiles	0.68	0.05	0.077	0.077	ug/L
CA48713	$8270-CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.89	0.05	0.077	0.077	ug/L
CA48713	$8270-CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	1.9	0.05	0.3	0.3	ug/L
CA48713	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	0.34	0.067	0.25	0.25	mg/L
CA48715	$8270-CTSIMR	Chrysene	CT / RSR SWPC (ug/l) / APS Organics	0.55	0.05	0.54	0.54	ug/L
CA48715	$8270-CTSIMR	Indeno(1,2,3-cd)pyrene	CT / RSR SWPC (ug/l) / APS Organics	0.78	0.05	0.54	0.54	ug/L
CA48715	$8270-CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	0.41	0.05	0.3	0.3	ug/L
CA48715	$8270-CTSIMR	Benz(a)anthracene	CT / RSR SWPC (ug/l) / Semivolatiles	0.44	0.05	0.3	0.3	ug/L
CA48715	$8270-CTSIMR	Benzo(a)pyrene	CT / RSR SWPC (ug/l) / Semivolatiles	1.1	0.05	0.3	0.3	ug/L
CA48715	$8270-CTSIMR	Benzo(k)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	0.72	0.05	0.3	0.3	ug/L
CA48715	$8270-CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.09	0.05	0.077	0.077	ug/L
CA48715	$8270-CTSIMR	Benzo(b)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	0.72	0.05	0.3	0.3	ug/L
CA48716	$8270-CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	3.4	0.05	0.077	0.077	ug/L
CA48716	$8270-CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	1.3	0.05	0.3	0.3	ug/L
CA48716	$8270-CTSIMR	Benz(a)anthracene	CT / RSR SWPC (ug/l) / Semivolatiles	0.43	0.05	0.3	0.3	ug/L
CA48716	$8270-CTSIMR	Benzo(a)pyrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.41	0.05	0.3	0.3	ug/L
CA48716	$8270-CTSIMR	Dibenzofuran	CT / RSR SWPC (ug/l) / Semivolatiles	0.19	0.05	0.077	0.077	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Tighe & Bond

Project Location: ROCKVILLE MGP ***Project Number:***

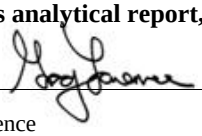
Laboratory Sample ID(s): CA48712-CA48718 ***Sampling Date(s):*** 5/16/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8260, 8270, ETPH, 9010/9012

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: Cyanide Narration, SVOA Narration, SVOASIM Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Wednesday, May 23, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

CTDEP RCP Laboratory Analysis QA/QC Certification Form - November 2007
Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 23, 2018

SDG I.D.: GCA48712

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 431026 (Samples: CA48712, CA48713, CA48714, CA48715, CA48716, CA48717): -----

The MS recovery is above the upper range. This analyte was not reported in the sample(s). No significant bias is suspected.

Instrument:

LACHAT 05/21/18-1 Dustin Harrison, Greg Danielewski, Chemist 05/21/18

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

The samples were distilled in accordance with the method.
The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequencey of one per ten samples.
The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

QC (Site Specific):

Batch 431026 (CA48712)

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

All LCS recoveries were within 90 - 110 with the following exceptions: None.
All MS recoveries were within 90 - 110 with the following exceptions: Total Cyanide(112%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL1 05/18/18-1 Jeff Bucko, Chemist 05/18/18

CA48716, CA48717

The initial calibration (ETPH406I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 05/17/18-1 Jeff Bucko, Chemist 05/17/18

CA48712, CA48713, CA48714, CA48715

The initial calibration (ETPH509I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 430703 (CA48435)

CA48712, CA48713, CA48714, CA48715

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SDG I.D.: GCA48712

ETPH Narration

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 430973 (CA48716)

CA48716, CA48717

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/17/18 08:35 Rick Schweitzer, Chemist 05/17/18

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Site Specific):

Batch 430825 (CA48714)

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

BLUE 05/18/18 10:30 Mike Arsenault, Chemist 05/18/18

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

The initial calibration met criteria.

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Certification Report

May 23, 2018

SDG I.D.: GCA48712

ICP Metals Narration

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

BLUE 05/21/18 06:37 Mike Arsenault, Chemist 05/21/18

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 430969 (CA49065)

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

All LCS recoveries were within 75 - 125 with the following exceptions: None.

ICPMS Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ICPMS 05/18/18 11:58 Cindy Pearce, Chemist 05/18/18

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following samples did not meet internal standard criteria: None.

QC (Batch Specific):

Batch 430967 (CA48619)

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

All LCS recoveries were within 75 - 125 with the following exceptions: None.

SVOA Narration

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RCP Certification Report

May 23, 2018

SDG I.D.: GCA48712

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 430789 (Samples: CA48712, CA48713, CA48714, CA48715, CA48716, CA48717): -----

The QC recovery for one analyte is below the method criteria. A low bias for this analyte is possible. (Benzidine)

The LCS/LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (2-Nitroaniline)

The LCS recovery is below the method criteria. The LCSD recovery is acceptable. A low bias is possible. (Aniline)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 4-Chloroaniline, N-Nitrosodimethylamine)

Instrument:

CHEM05 05/21/18-1 Damien Drobinski, Chemist 05/21/18

CA48715, CA48716, CA48717

Initial Calibration Verification (CHEM05/SPLIT_0514):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 26% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.082 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/0521_02-SPLIT_0514):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.094 (0.1)
The following compounds did not meet minimum response factors: None.

CHEM28 05/18/18-2 Damien Drobinski, Chemist 05/18/18

CA48712, CA48713, CA48714

Initial Calibration Verification (CHEM28/SPLIT_0403):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 26% (20%), 4,6-Dinitro-2-methylphenol 29% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.067 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0518_06A-SPLIT_0403):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: 2,4-Dinitrophenol 59%L (30%)
The following compounds did not meet maximum % deviations: 2,4-Dinitrophenol 59%L (40%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.084 (0.1)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

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RCP Certification Report

May 23, 2018

SDG I.D.: GCA48712

SVOA Narration

Batch 430789 (CA48617)

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

All LCS recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(134%), Aniline(<10%), Benzidine(<10%)
All LCSD recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(145%), Benzidine(16%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: 1,2-Dichlorobenzene(23.9%), 1,3-Dichlorobenzene(23.1%), 1,4-Dichlorobenzene(21.0%), 4-Chloroaniline(66.7%), N-Nitrosodimethylamine(24.0%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 430789 (Samples: CA48712, CA48713, CA48714, CA48715, CA48716, CA48717): -----

The LCS/LCSD recovery is below the lower range. A low bias for this analyte is possible. (Pyridine)

Instrument:

CHEM25 05/18/18-1 Damien Drobinski, Chemist 05/18/18

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

Initial Calibration Verification (CHEM25/SIM_0410):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Hexachloroethane 0.265 (0.3)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM25/0518_02-SIM_0410):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Pentachloronitrobenzene 40%H (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 430789 (CA48617)

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717

All LCS recoveries were within 30 - 130 with the following exceptions: Pyridine(18%)
All LCSD recoveries were within 30 - 130 with the following exceptions: Pyridine(20%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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RCP Certification Report

May 23, 2018

SDG I.D.: GCA48712

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 430854 (Samples: CA48712, CA48713, CA48714, CA48715, CA48716, CA48717, CA48718): -----

The LCS recovery is below the lower range, but within the method criteria. The LCSD recovery is acceptable. No significant bias is suspected. (Acetone)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Acetone)

Instrument:

CHEM17 05/16/18-2 Michael Hahn, Chemist 05/16/18

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717, CA48718

Initial Calibration Verification (CHEM17/VT-S0516):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.039 (0.05), 2-Hexanone 0.088 (0.1), Acetone 0.049 (0.1), Bromoform 0.094 (0.1), Methyl ethyl ketone 0.071 (0.1), Tetrahydrofuran (THF) 0.047 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/0516_15-VT-S0516):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.040 (0.05), Bromoform 0.099 (0.1), Tetrahydrofuran (THF) 0.043 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 430854 (CA48618)

CA48712, CA48713, CA48714, CA48715, CA48716, CA48717, CA48718

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(61%)
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: Acetone(31.7%)
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 2.3C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ No ☐

CHAIN OF CUSTODY RECORD

Temp 2.3 Pg 1 of 1

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☒ Email: LEWilley@tighebond.com

Customer: Tighe + Bond
Address: 213 Court Street
Middleton, CT

Project: Rockville MGP
Report to: Lynn Willey
Invoice to: Tighe + Bond

Project P.O: 14-0755-0441

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 5/16/18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC	ETPH	SVOC	RSR metals	Total Cyanide	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
48712	MW-17S	GW	5/16/18	9:35	X	X	X	X	X					3	3			1	1		
48713	MW-5S			10:10	X	X	X	X	X					3	3			1	1		
48714	MW-5D			12:00	X	X	X	X	X					3	3			1	1		
48715	MW-8SR			13:45	X	X	X	X	X					3	3			1	1		
48716	MW-2SR			14:45	X	X	X	X	X					3	3			1	1		
48717	MW-2BR			16:35	X	X	X	X	X					3	3			1	1		
48718	Trip Blank		–	–	X									2							

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5/16/18	18:28

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☒ RCP Cert
☐ GW Protection
☒ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other Greatech

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

State where samples were collected: CT

Client Services

From: Lynn E. Willey <LEWilley@tighebond.com>
Sent: Wednesday, May 16, 2018 9:03 PM
To: Client Services
Cc: Benjamin P. Caswell
Subject: Re: Phoenix Labs - GCA48712, ROCKVILLE MGP - COC Acknowledgement

Thank you for the log in information. The samples do not need to be compared to GA GWPC.

It needs to be SWPC and Res Volatization.

Thank you

Sent from my iPhone

On May 16, 2018, at 7:44 PM, "clientservices@phoenixlabs.com" <clientservices@phoenixlabs.com> wrote:

> Lynn,
>
> Please email client services only if you have a Price Quote# for this SDG, a Quote# was not listed on the COC.
>
> Purchase Order#:14-0755-0445
>
> GCA48712 Criteria:
> GROUND WATER(7): CT GWP (GA GW Protection), CT SWP (SW Protection)
>
> Please email client services only if you require criteria different than what is listed.
>
> Delivery group GCA48712 (ROCKVILLE MGP) has been logged in for the following samples:

Phoenix Id	Client Id
CA48712	MW-17S
CA48713	MW-5S
CA48714	MW-5D
CA48715	MW-8SR
CA48716	MW-2SR
CA48717	MW-2BR
CA48718	TRIP BL ANK

> The samples were received at 2.3C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)
>
> If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.
>
> Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.

<Sample Acknowledgement.pdf>

Sarah Bell

From: Benjamin P. Caswell <BCaswell@tighebond.com>
Sent: Monday, May 21, 2018 7:59 AM
To: Sarah Bell
Cc: Lynn E. Willey
Subject: GCA48712 - DAS Rate

Good morning Sarah,

I forgot to indicate on the COC for GCA48712 that the job is for Eversource-Rockville and should be billed using the DAS rates under quote number TI012517BA. We will have a bunch more groundwater samples coming in this week and I will make sure to put "DAS Rates" on the COC.

Thanks!
Ben

Benjamin Caswell | Environmental Scientist
Tighe&Bond | 213 Court St., Suite 1100 | Middletown, CT 06457 | 860.852.5220 | 401.787.0905 (cell)
www.tighebond.com | Follow us on: Twitter Facebook LinkedIn



PHOENIX
Environmental Laboratories, Inc.

Thursday, May 31, 2018

Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: ROCKVILLE MGP
Sample ID#s: CA51710 - CA51719

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	9:25
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51710

Project ID: ROCKVILLE MGP
Client ID: MW-4S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	MA	SW6010C
Barium	0.084	0.002	mg/L	1	05/25/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Zinc	0.030	0.002	mg/L	1	05/25/18	MA	SW6010C
Total Cyanide	0.011	0.010	mg/L	1	05/24/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/22/18	P/R/D	SW3520C
Total Metals Digestion	Completed				05/24/18	AG	
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/24/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	05/24/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4S

Phoenix I.D.: CA51710

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/23/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/23/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C

Project ID: ROCKVILLE MGP
Client ID: MW-4S

Phoenix I.D.: CA51710

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrachloroethene	1.7	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/23/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	05/23/18	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/18	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	05/23/18	MH	70 - 130 %
% Toluene-d8	93		%	1	05/23/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/24/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/24/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/24/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/24/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/24/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4S

Phoenix I.D.: CA51710

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/24/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/24/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/24/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	87		%	1	05/24/18	DD	15 - 110 %
% 2-Fluorobiphenyl	78		%	1	05/24/18	DD	30 - 130 %
% 2-Fluorophenol	43		%	1	05/24/18	DD	15 - 110 %
% Nitrobenzene-d5	71		%	1	05/24/18	DD	30 - 130 %
% Phenol-d5	50		%	1	05/24/18	DD	15 - 110 %
% Terphenyl-d14	83		%	1	05/24/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/24/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/24/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Acenaphthylene	0.22	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Anthracene	0.13	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Benzo(a)pyrene	0.07	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/24/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/24/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.02	0.01	ug/L	1	05/24/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/24/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4S

Phoenix I.D.: CA51710

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/24/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/24/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.07	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/24/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/24/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/24/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/24/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/24/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/24/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	87		%	1	05/24/18	DD	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	05/24/18	DD	30 - 130 %
% 2-Fluorophenol	50		%	1	05/24/18	DD	15 - 110 %
% Nitrobenzene-d5	84		%	1	05/24/18	DD	30 - 130 %
% Phenol-d5	72		%	1	05/24/18	DD	15 - 110 %
% Terphenyl-d14	85		%	1	05/24/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	11:45
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51711

Project ID: ROCKVILLE MGP
Client ID: MW-4D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	MA	SW6010C
Barium	0.281	0.002	mg/L	1	05/25/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Chromium	0.018	0.001	mg/L	1	05/25/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	0.013	0.001	mg/L	1	05/25/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Zinc	0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/24/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/23/18	P/R	SW3520C
Total Metals Digestion	Completed				05/24/18	AG	
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/24/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	05/24/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4D

Phoenix I.D.: CA51711

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/23/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/23/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4D

Phoenix I.D.: CA51711

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/23/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	05/23/18	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/18	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	05/23/18	MH	70 - 130 %
% Toluene-d8	93		%	1	05/23/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
2-Chloronaphthalene	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
2-Chlorophenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
2-Nitroaniline	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
2-Nitrophenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.5	ug/L	1	05/25/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
3-Nitroaniline	ND	4.8	ug/L	1	05/25/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4D

Phoenix I.D.: CA51711

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
4-Chloroaniline	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
4-Nitroaniline	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
4-Nitrophenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
Acetophenone	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Aniline	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Benzidine	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Benzoic acid	ND	48	ug/L	1	05/25/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Carbazole	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Diethyl phthalate	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Dimethylphthalate	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Di-n-butylphthalate	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Di-n-octylphthalate	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Isophorone	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	05/25/18	DD	SW8270D
Phenol	ND	0.95	ug/L	1	05/25/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	91		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	36		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	51		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	43		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	86		%	1	05/25/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.95	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	05/25/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4D

Phoenix I.D.: CA51711

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	05/25/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.76	ug/L	1	05/25/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyridine	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	61		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	43		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	57		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	54		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	79		%	1	05/25/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	14:20
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51712

Project ID: ROCKVILLE MGP
Client ID: MW-6S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	MA	SW6010C
Barium	0.031	0.002	mg/L	1	05/25/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Chromium	0.040	0.001	mg/L	1	05/25/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	0.008	0.001	mg/L	1	05/25/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Zinc	0.004	0.002	mg/L	1	05/25/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/24/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/23/18	P/R	SW3520C
Total Metals Digestion	Completed				05/24/18	AG	
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/24/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	05/24/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-6S

Phoenix I.D.: CA51712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/23/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/23/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-6S

Phoenix I.D.: CA51712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/23/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	05/23/18	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/18	MH	70 - 130 %
% Dibromofluoromethane	96		%	1	05/23/18	MH	70 - 130 %
% Toluene-d8	92		%	1	05/23/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/25/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-6S

Phoenix I.D.: CA51712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/25/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	87		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	74		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	39		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	53		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	44		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	82		%	1	05/25/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-6S

Phoenix I.D.: CA51712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/25/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	94		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	62		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	46		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	66		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	57		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	72		%	1	05/25/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	15:45
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51713

Project ID: ROCKVILLE MGP
Client ID: MW-6D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	MA	SW6010C
Barium	0.073	0.002	mg/L	1	05/25/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Chromium	0.022	0.001	mg/L	1	05/25/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	0.006	0.001	mg/L	1	05/25/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Zinc	0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/25/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/23/18	P/R	SW3520C
Total Metals Digestion	Completed				05/24/18	AG	
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/24/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	05/24/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-6D

Phoenix I.D.: CA51713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/23/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/23/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-6D

Phoenix I.D.: CA51713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/23/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	05/23/18	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/18	MH	70 - 130 %
% Dibromofluoromethane	96		%	1	05/23/18	MH	70 - 130 %
% Toluene-d8	92		%	1	05/23/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/25/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-6D

Phoenix I.D.: CA51713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/25/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	82		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	62		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	35		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	44		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	40		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	79		%	1	05/25/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthene	0.85	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthylene	0.15	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenzofuran	0.05	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluoranthene	0.13	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluorene	0.53	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-6D

Phoenix I.D.: CA51713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/25/18	DD	SW8270D (SIM)
Phenanthrene	0.06	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyrene	0.24	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	56		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	40		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	51		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	52		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	72		%	1	05/25/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	9:32
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51714

Project ID: ROCKVILLE MGP
Client ID: MW-11S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	MA	SW6010C
Barium	0.042	0.002	mg/L	1	05/25/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Zinc	0.004	0.002	mg/L	1	05/25/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/25/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/23/18	P/R	SW3520C
Total Metals Digestion	Completed				05/24/18	AG	
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/24/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	05/24/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-11S

Phoenix I.D.: CA51714

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/23/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/23/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-11S

Phoenix I.D.: CA51714

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/23/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	05/23/18	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/18	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	05/23/18	MH	70 - 130 %
% Toluene-d8	93		%	1	05/23/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/25/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-11S

Phoenix I.D.: CA51714

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/25/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	79		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	66		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	38		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	49		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	44		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	75		%	1	05/25/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-11S

Phoenix I.D.: CA51714

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/25/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	93		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	55		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	43		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	57		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	55		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	67		%	1	05/25/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	10:57
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51715

Project ID: ROCKVILLE MGP
Client ID: MW-11D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	MA	SW6010C
Barium	0.061	0.002	mg/L	1	05/25/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Chromium	0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	0.003	0.002	mg/L	1	05/25/18	MA	SW6010C
Zinc	0.005	0.002	mg/L	1	05/25/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/25/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/23/18	P/R	SW3520C
Total Metals Digestion	Completed				05/24/18	AG	
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/24/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	05/24/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-11D

Phoenix I.D.: CA51715

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/23/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/23/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/23/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/23/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-11D

Phoenix I.D.: CA51715

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/23/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/23/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/23/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/23/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	05/23/18	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/18	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	05/23/18	MH	70 - 130 %
% Toluene-d8	93		%	1	05/23/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/25/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-11D

Phoenix I.D.: CA51715

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/25/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	86		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	68		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	33		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	46		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	41		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	82		%	1	05/25/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-11D

Phoenix I.D.: CA51715

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/25/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	97		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	56		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	39		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	52		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	49		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	70		%	1	05/25/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	13:32
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51716

Project ID: ROCKVILLE MGP
Client ID: MW-12S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	EK	SW6010C
Barium	0.037	0.002	mg/L	1	05/25/18	EK	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	EK	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	EK	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/25/18	EK	SW6010C
Zinc	< 0.002	0.002	mg/L	1	05/25/18	EK	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/25/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/23/18	P/R	SW3520C
Total Metals Digestion	Completed				05/24/18		
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/24/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	05/24/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-12S

Phoenix I.D.: CA51716

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/24/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/24/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-12S

Phoenix I.D.: CA51716

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/24/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	05/24/18	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	05/24/18	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	05/24/18	MH	70 - 130 %
% Toluene-d8	94		%	1	05/24/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/25/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/25/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-12S

Phoenix I.D.: CA51716

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/25/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/25/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/25/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	91		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	73		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	41		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	55		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	48		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	86		%	1	05/25/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-12S

Phoenix I.D.: CA51716

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/25/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	103		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	60		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	49		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	61		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	61		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	73		%	1	05/25/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	15:05
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51717

Project ID: ROCKVILLE MGP
Client ID: MW-12D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	MA	SW6010C
Barium	0.176	0.002	mg/L	1	05/25/18	MA	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	MA	SW6010C
Chromium	0.004	0.001	mg/L	1	05/25/18	MA	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	0.002	0.001	mg/L	1	05/25/18	MA	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	MA	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/25/18	MA	SW6010C
Zinc	0.003	0.002	mg/L	1	05/25/18	MA	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/25/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/23/18	P/R	SW3520C
Total Metals Digestion	Completed				05/24/18	AG	
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/24/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	05/24/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-12D

Phoenix I.D.: CA51717

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/24/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/24/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-12D

Phoenix I.D.: CA51717

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/24/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	05/24/18	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	05/24/18	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	05/24/18	MH	70 - 130 %
% Toluene-d8	98		%	1	05/24/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/26/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/26/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/26/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/26/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-12D

Phoenix I.D.: CA51717

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/26/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	83		%	1	05/26/18	DD	15 - 110 %
% 2-Fluorobiphenyl	69		%	1	05/26/18	DD	30 - 130 %
% 2-Fluorophenol	35		%	1	05/26/18	DD	15 - 110 %
% Nitrobenzene-d5	47		%	1	05/26/18	DD	30 - 130 %
% Phenol-d5	45		%	1	05/26/18	DD	15 - 110 %
% Terphenyl-d14	80		%	1	05/26/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-12D

Phoenix I.D.: CA51717

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/25/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyrene	0.05	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	104		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	58		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	41		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	59		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	55		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	70		%	1	05/25/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	13:05
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51718

Project ID: ROCKVILLE MGP
Client ID: MW-16S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	EK	SW6010C
Barium	0.020	0.002	mg/L	1	05/25/18	EK	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	EK	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	EK	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/25/18	EK	SW6010C
Zinc	< 0.002	0.002	mg/L	1	05/25/18	EK	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	05/25/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/23/18	P/R	SW3520C
Total Metals Digestion	Completed				05/24/18	AG	
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/25/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/25/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	05/25/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-16S

Phoenix I.D.: CA51718

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/24/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/24/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloroform	2.9	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-16S

Phoenix I.D.: CA51718

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/24/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	05/24/18	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	05/24/18	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	05/24/18	MH	70 - 130 %
% Toluene-d8	98		%	1	05/24/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/26/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/26/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/26/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	05/26/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-16S

Phoenix I.D.: CA51718

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Aniline	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	05/26/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	05/26/18	DD	SW8270D
Phenol	ND	0.94	ug/L	1	05/26/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	82		%	1	05/26/18	DD	15 - 110 %
% 2-Fluorobiphenyl	60		%	1	05/26/18	DD	30 - 130 %
% 2-Fluorophenol	35		%	1	05/26/18	DD	15 - 110 %
% Nitrobenzene-d5	43		%	1	05/26/18	DD	30 - 130 %
% Phenol-d5	40		%	1	05/26/18	DD	15 - 110 %
% Terphenyl-d14	81		%	1	05/26/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-16S

Phoenix I.D.: CA51718

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	05/25/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	05/25/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	94		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	51		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	40		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	53		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	50		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	71		%	1	05/25/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 31, 2018

FOR: Attn: Ms. Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/22/18	9:26
Location Code:	TIGHE-DAS	Received by:	TC	05/22/18	17:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA51710
Phoenix ID: CA51719

Project ID: ROCKVILLE MGP
Client ID: MW-DUP

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	05/25/18	EK	SW6010C
Barium	0.086	0.002	mg/L	1	05/25/18	EK	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Copper	< 0.005	0.005	mg/L	1	05/25/18	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	05/23/18	RS	SW7470A
Nickel	0.001	0.001	mg/L	1	05/25/18	EK	SW6010C
Lead	< 0.002	0.002	mg/L	1	05/25/18	EK	SW6010C
Antimony	< 0.005	0.005	mg/L	1	05/25/18	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	05/25/18	EK	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	05/24/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	05/25/18	EK	SW6010C
Zinc	0.031	0.002	mg/L	1	05/25/18	EK	SW6010C
Total Cyanide	0.012	0.010	mg/L	1	05/25/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				05/23/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				05/23/18	WI/W	SW7470A
Semi-Volatile Extraction	Completed				05/23/18	P/R	SW3520C
Total Metals Digestion	Completed				05/24/18	AG	
Total Metals Digestion MS	Completed				05/23/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/25/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/25/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	05/25/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
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Phoenix I.D.: CA51719

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	05/24/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Acetone	ND	25	ug/L	1	05/24/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	05/24/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	05/24/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Tetrachloroethene	2.0	1.0	ug/L	1	05/24/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/24/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/24/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/24/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	05/24/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	05/24/18	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	05/24/18	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	05/24/18	MH	70 - 130 %
% Toluene-d8	98		%	1	05/24/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	05/26/18	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	05/26/18	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	05/26/18	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
2,4-Dichlorophenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
2,4-Dimethylphenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
2,4-Dinitrophenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
2,4-Dinitrotoluene	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
2,6-Dinitrotoluene	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
2-Chloronaphthalene	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
2-Chlorophenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
2-Nitroaniline	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
2-Nitrophenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.5	ug/L	1	05/26/18	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
3-Nitroaniline	ND	4.8	ug/L	1	05/26/18	DD	SW8270D

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
4-Chloroaniline	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
4-Nitroaniline	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
4-Nitrophenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
Acetophenone	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Aniline	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Benzidine	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Benzoic acid	ND	48	ug/L	1	05/26/18	DD	SW8270D
Benzyl butyl phthalate	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Carbazole	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Diethyl phthalate	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Dimethylphthalate	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Di-n-butylphthalate	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Di-n-octylphthalate	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Isophorone	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
N-Nitrosodimethylamine	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	05/26/18	DD	SW8270D
Phenol	ND	0.95	ug/L	1	05/26/18	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	89		%	1	05/26/18	DD	15 - 110 %
% 2-Fluorobiphenyl	73		%	1	05/26/18	DD	30 - 130 %
% 2-Fluorophenol	38		%	1	05/26/18	DD	15 - 110 %
% Nitrobenzene-d5	54		%	1	05/26/18	DD	30 - 130 %
% Phenol-d5	37		%	1	05/26/18	DD	15 - 110 %
% Terphenyl-d14	74		%	1	05/26/18	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.95	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Acenaphthylene	0.10	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Anthracene	0.14	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	05/25/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/25/18	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	05/25/18	DD	SW8270D (SIM)

Ver 1

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Phoenix I.D.: CA51719

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Hexachloroethane	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	05/25/18	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.76	ug/L	1	05/25/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	05/25/18	DD	SW8270D (SIM)
Pyridine	ND	0.48	ug/L	1	05/25/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	104		%	1	05/25/18	DD	15 - 110 %
% 2-Fluorobiphenyl	65		%	1	05/25/18	DD	30 - 130 %
% 2-Fluorophenol	46		%	1	05/25/18	DD	15 - 110 %
% Nitrobenzene-d5	60		%	1	05/25/18	DD	30 - 130 %
% Phenol-d5	44		%	1	05/25/18	DD	15 - 110 %
% Terphenyl-d14	71		%	1	05/25/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
May 31, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 31, 2018

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 431661 (mg/L), QC Sample No: CA50752 (CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	98.9			91.7			80 - 120	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 431970 (mg/L), QC Sample No: CA51657 (CA51710, CA51711, CA51712, CA51713, CA51714)													
ICP Metals - Aqueous													
Antimony	BRL	0.005	<0.005	<0.005	NC	91.8			103			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	89.0			99.3			75 - 125	20
Barium	BRL	0.002	0.172	0.174	1.20	100			99.2			75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	96.2			99.8			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	91.4			99.0			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	87.5			95.2			75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	95.9			96.7			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	89.0			97.0			75 - 125	20
Nickel	BRL	0.001	0.001	0.002	NC	90.4			96.9			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	89.1			97.6			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	92.4			99.1			75 - 125	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	94.5			97.9			75 - 125	20
Zinc	BRL	0.002	0.004	0.003	NC	89.7			99.0			75 - 125	20
QA/QC Batch 431756 (mg/L), QC Sample No: CA51710 5X (CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719)													
ICP MS Metals - Aqueous													
Thallium	BRL	0.0015	<0.0005	<0.0015	NC	100			85.6			75 - 125	20
QA/QC Batch 431971 (mg/L), QC Sample No: CA51842 (CA51715, CA51716, CA51717, CA51718, CA51719)													
ICP Metals - Aqueous													
Antimony	BRL	0.005	<0.005	<0.005	NC	100			102			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.3			101			75 - 125	20
Barium	BRL	0.002	0.018	0.018	0	98.8			99.2			75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	95.6			99.2			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	99.0			99.2			75 - 125	20
Chromium	BRL	0.001	<0.010	<0.010	NC	101			105			75 - 125	20
Copper	BRL	0.005	0.005	<0.005	NC	94.3			95.7			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	97.7			98.0			75 - 125	20
Nickel	BRL	0.001	<0.001	<0.001	NC	99.3			98.6			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	98.1			97.5			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	91.8			95.5			75 - 125	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	94.0			97.5			75 - 125	20
Zinc	BRL	0.002	0.005	0.005	NC	97.2			98.5			75 - 125	20

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QA/QC Report

May 31, 2018

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 431836 (mg/L), QC Sample No: CA51710 (CA51710, CA51711, CA51712)													
Total Cyanide	BRL	0.010	0.011	0.012	NC	90.5			101			90 - 110	20
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 431988 (mg/L), QC Sample No: CA51714 (CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719)													
Total Cyanide	BRL	0.010	<0.010	<0.010	NC	92.1			102			90 - 110	20
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 31, 2018

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 431609 (ug/L), QC Sample No: CA50006 (CA51710)											
Semivolatiles (SIM) - Ground Water											
1,2,4,5-Tetrachlorobenzene	ND	0.50	61	67	9.4				30 - 130	20	
2-Methylnaphthalene	ND	0.02	64	71	10.4				30 - 130	20	
Acenaphthene	ND	0.02	74	78	5.3				30 - 130	20	
Acenaphthylene	ND	0.02	69	70	1.4				30 - 130	20	
Anthracene	ND	0.02	75	79	5.2				30 - 130	20	
Benz(a)anthracene	ND	0.02	83	85	2.4				30 - 130	20	
Benzo(a)pyrene	ND	0.02	66	68	3.0				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	80	77	3.8				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	75	76	1.3				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	86	90	4.5				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	0.2	103	100	3.0				30 - 130	20	
Chrysene	ND	0.02	81	81	0.0				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	79	88	10.8				30 - 130	20	
Dibenzofuran	ND	0.05	75	78	3.9				30 - 130	20	
Fluoranthene	ND	0.02	80	84	4.9				30 - 130	20	
Fluorene	ND	0.02	78	79	1.3				30 - 130	20	
Hexachlorobenzene	ND	0.02	81	83	2.4				30 - 130	20	
Hexachlorobutadiene	ND	0.05	54	64	16.9				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.05	32	36	11.8				30 - 130	20	
Hexachloroethane	ND	0.05	54	62	13.8				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	73	79	7.9				30 - 130	20	
Naphthalene	ND	0.02	58	65	11.4				30 - 130	20	
Nitrobenzene	ND	0.05	63	72	13.3				30 - 130	20	
Pentachloronitrobenzene	ND	0.10	94	103	9.1				30 - 130	20	
Pentachlorophenol	ND	0.20	116	136	15.9				30 - 130	20	I
Phenanthrene	ND	0.02	78	79	1.3				30 - 130	20	
Pyrene	ND	0.02	83	89	7.0				30 - 130	20	
Pyridine	ND	0.50	45	45	0.0				30 - 130	20	
% 2,4,6-Tribromophenol	95	%	101	112	10.3				15 - 110	20	I
% 2-Fluorobiphenyl	66	%	70	74	5.6				30 - 130	20	
% 2-Fluorophenol	50	%	41	46	11.5				15 - 110	20	
% Nitrobenzene-d5	73	%	65	71	8.8				30 - 130	20	
% Phenol-d5	60	%	46	52	12.2				15 - 110	20	
% Terphenyl-d14	87	%	87	92	5.6				30 - 130	20	
Comment:											
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)											
QA/QC Batch 431609 (ug/L), QC Sample No: CA50006 (CA51710)											
Semivolatiles - Ground Water											
1,2,4-Trichlorobenzene	ND	3.5	58	66	12.9				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	56	65	14.9				30 - 130	20	

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Diphenylhydrazine	ND	1.6	80	96	18.2				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	55	64	15.1				30 - 130	20	
1,4-Dichlorobenzene	ND	1.0	57	64	11.6				30 - 130	20	
2,4,5-Trichlorophenol	ND	1.0	85	98	14.2				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	80	92	14.0				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	62	76	20.3				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	73	86	16.4				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	94	100	6.2				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	95	98	3.1				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	92	95	3.2				30 - 130	20	
2-Chloronaphthalene	ND	3.5	74	81	9.0				30 - 130	20	
2-Chlorophenol	ND	1.0	52	60	14.3				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	59	63	6.6				30 - 130	20	
2-Nitroaniline	ND	3.5	100	100	0.0				30 - 130	20	
2-Nitrophenol	ND	1.0	73	92	23.0				30 - 130	20	r
3&4-Methylphenol (m&p-cresol)	ND	1.0	61	72	16.5				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	20	97	131.6				30 - 130	20	l,r
3-Nitroaniline	ND	5.0	69	93	29.6				30 - 130	20	r
4,6-Dinitro-2-methylphenol	ND	1.0	95	101	6.1				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	85	87	2.3				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	90	82	9.3				30 - 130	20	
4-Chloroaniline	ND	3.5	48	80	50.0				30 - 130	20	r
4-Chlorophenyl phenyl ether	ND	1.0	88	89	1.1				30 - 130	20	
4-Nitroaniline	ND	5.0	82	93	12.6				30 - 130	20	
4-Nitrophenol	ND	1.0	78	97	21.7				15 - 130	20	r
Acetophenone	ND	3.5	65	76	15.6				30 - 130	20	
Aniline	ND	3.5	61	61	0.0				30 - 130	20	
Benzidine	ND	4.5	121	121	0.0				30 - 130	20	
Benzoic acid	ND	10	50	56	11.3				30 - 130	20	
Benzyl butyl phthalate	ND	1.5	87	94	7.7				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.5	58	71	20.2				30 - 130	20	
Bis(2-chloroethyl)ether	ND	1.0	48	56	15.4				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	1.0	41	51	21.7				30 - 130	20	r
Carbazole	ND	5.0	93	97	4.2				30 - 130	20	
Diethyl phthalate	ND	1.5	95	107	11.9				30 - 130	20	
Dimethylphthalate	ND	1.5	90	92	2.2				30 - 130	20	
Di-n-butylphthalate	ND	1.5	88	104	16.7				30 - 130	20	
Di-n-octylphthalate	ND	1.5	93	105	12.1				30 - 130	20	
Isophorone	ND	3.5	61	74	19.3				30 - 130	20	
N-Nitrosodimethylamine	ND	1.0	65	65	0.0				30 - 130	20	
N-Nitrosodi-n-propylamine	ND	3.5	68	79	15.0				30 - 130	20	
N-Nitrosodiphenylamine	ND	3.5	81	83	2.4				30 - 130	20	
Phenol	ND	1.0	39	45	14.3				15 - 130	20	
% 2,4,6-Tribromophenol	73	%	76	104	31.1				15 - 110	20	r
% 2-Fluorobiphenyl	78	%	77	96	22.0				30 - 130	20	r
% 2-Fluorophenol	45	%	37	48	25.9				15 - 110	20	r
% Nitrobenzene-d5	64	%	67	78	15.2				30 - 130	20	
% Phenol-d5	48	%	41	48	15.7				15 - 110	20	
% Terphenyl-d14	99	%	92	96	4.3				30 - 130	20	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 431758 (mg/L), QC Sample No: CA50750 (CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719)										
TPH by GC (Extractable Products) - Ground Water										
Ext. Petroleum H.C. (C9-C36)	ND	0.10	82	86	4.8				60 - 120	30
% n-Pentacosane	71	%	79	82	3.7				50 - 150	20
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 431933 (ug/L), QC Sample No: CA51378 (CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	85	89	4.6				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	82	84	2.4				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	86	93	7.8				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	77	86	11.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	82	85	3.6				70 - 130	30
1,1-Dichloroethene	ND	1.0	86	86	0.0				70 - 130	30
1,1-Dichloropropene	ND	1.0	83	81	2.4				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	86	99	14.1				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	83	83	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	85	92	7.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	87	85	2.3				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	90	96	6.5				70 - 130	30
1,2-Dibromoethane	ND	1.0	82	90	9.3				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	84	86	2.4				70 - 130	30
1,2-Dichloroethane	ND	1.0	78	85	8.6				70 - 130	30
1,2-Dichloropropane	ND	1.0	80	84	4.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	85	83	2.4				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	85	85	0.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	80	87	8.4				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	84	84	0.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	78	78	0.0				70 - 130	30
2-Chlorotoluene	ND	1.0	87	83	4.7				70 - 130	30
2-Hexanone	ND	5.0	75	88	16.0				70 - 130	30
2-Isopropyltoluene	ND	1.0	96	94	2.1				70 - 130	30
4-Chlorotoluene	ND	1.0	86	84	2.4				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	75	90	18.2				70 - 130	30
Acetone	ND	5.0	77	89	14.5				70 - 130	30
Acrylonitrile	ND	5.0	85	102	18.2				70 - 130	30
Benzene	ND	0.70	82	84	2.4				70 - 130	30
Bromobenzene	ND	1.0	88	88	0.0				70 - 130	30
Bromochloromethane	ND	1.0	82	90	9.3				70 - 130	30
Bromodichloromethane	ND	0.50	83	88	5.8				70 - 130	30
Bromoform	ND	1.0	84	93	10.2				70 - 130	30
Bromomethane	ND	1.0	114	111	2.7				70 - 130	30
Carbon Disulfide	ND	1.0	99	98	1.0				70 - 130	30
Carbon tetrachloride	ND	1.0	84	82	2.4				70 - 130	30
Chlorobenzene	ND	1.0	82	83	1.2				70 - 130	30
Chloroethane	ND	1.0	97	95	2.1				70 - 130	30
Chloroform	ND	1.0	81	85	4.8				70 - 130	30
Chloromethane	ND	1.0	94	95	1.1				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	84	87	3.5				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	80	86	7.2				70 - 130	30

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibromochloromethane	ND	0.50	88	96	8.7				70 - 130	30
Dibromomethane	ND	1.0	71	80	11.9				70 - 130	30
Dichlorodifluoromethane	ND	1.0	96	95	1.0				70 - 130	30
Ethylbenzene	ND	1.0	84	83	1.2				70 - 130	30
Hexachlorobutadiene	ND	0.40	89	87	2.3				70 - 130	30
Isopropylbenzene	ND	1.0	86	83	3.6				70 - 130	30
m&p-Xylene	ND	1.0	82	83	1.2				70 - 130	30
Methyl ethyl ketone	ND	5.0	78	91	15.4				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	97	113	15.2				70 - 130	30
Methylene chloride	ND	1.0	83	88	5.8				70 - 130	30
Naphthalene	ND	1.0	89	102	13.6				70 - 130	30
n-Butylbenzene	ND	1.0	83	81	2.4				70 - 130	30
n-Propylbenzene	ND	1.0	83	81	2.4				70 - 130	30
o-Xylene	ND	1.0	84	85	1.2				70 - 130	30
p-Isopropyltoluene	ND	1.0	83	82	1.2				70 - 130	30
sec-Butylbenzene	ND	1.0	83	83	0.0				70 - 130	30
Styrene	ND	1.0	85	86	1.2				70 - 130	30
tert-Butylbenzene	ND	1.0	82	82	0.0				70 - 130	30
Tetrachloroethene	ND	1.0	81	82	1.2				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	78	94	18.6				70 - 130	30
Toluene	ND	1.0	83	85	2.4				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	87	87	0.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	77	86	11.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	96	111	14.5				70 - 130	30
Trichloroethene	ND	1.0	85	85	0.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	89	89	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	93	93	0.0				70 - 130	30
Vinyl chloride	ND	1.0	92	93	1.1				70 - 130	30
% 1,2-dichlorobenzene-d4	93	%	100	100	0.0				70 - 130	30
% Bromofluorobenzene	94	%	97	98	1.0				70 - 130	30
% Dibromofluoromethane	96	%	93	99	6.3				70 - 130	30
% Toluene-d8	92	%	99	100	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 431761 (ug/L), QC Sample No: CA51711 (CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719)

Semivolatiles (SIM) - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	0.50	62	56	10.2				30 - 130	20
2-Methylnaphthalene	ND	0.02	63	56	11.8				30 - 130	20
Acenaphthene	ND	0.02	76	72	5.4				30 - 130	20
Acenaphthylene	ND	0.02	72	69	4.3				30 - 130	20
Anthracene	ND	0.02	88	81	8.3				30 - 130	20
Benz(a)anthracene	ND	0.02	88	81	8.3				30 - 130	20
Benzo(a)pyrene	ND	0.02	79	73	7.9				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	85	81	4.8				30 - 130	20
Benzo(ghi)perylene	ND	0.02	80	72	10.5				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	93	85	9.0				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	0.10	90	90	0.0				30 - 130	20
Chrysene	ND	0.02	86	79	8.5				30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	93	79	16.3				30 - 130	20
Dibenzofuran	ND	0.05	75	70	6.9				30 - 130	20

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Fluoranthene	ND	0.02	92	83	10.3				30 - 130	20	
Fluorene	ND	0.02	81	76	6.4				30 - 130	20	
Hexachlorobenzene	ND	0.02	84	80	4.9				30 - 130	20	
Hexachlorobutadiene	ND	0.05	55	49	11.5				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.05	37	30	20.9				30 - 130	20	r
Hexachloroethane	ND	0.05	47	43	8.9				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	85	75	12.5				30 - 130	20	
Naphthalene	ND	0.02	55	50	9.5				30 - 130	20	
Nitrobenzene	ND	0.05	59	53	10.7				30 - 130	20	
Pentachloronitrobenzene	ND	0.10	96	89	7.6				30 - 130	20	
Pentachlorophenol	ND	0.20	121	102	17.0				30 - 130	20	
Phenanthrene	ND	0.02	79	73	7.9				30 - 130	20	
Pyrene	ND	0.02	95	86	9.9				30 - 130	20	
Pyridine	ND	0.50	30	30	0.0				30 - 130	20	
% 2,4,6-Tribromophenol	84	%	91	85	6.8				15 - 110	20	
% 2-Fluorobiphenyl	64	%	68	65	4.5				30 - 130	20	
% 2-Fluorophenol	57	%	39	33	16.7				15 - 110	20	
% Nitrobenzene-d5	68	%	57	54	5.4				30 - 130	20	
% Phenol-d5	69	%	47	39	18.6				15 - 110	20	
% Terphenyl-d14	90	%	89	80	10.7				30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 431761 (ug/L), QC Sample No: CA51711 (CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719)

Semivolatiles - Ground Water

1,2,4-Trichlorobenzene	ND	3.5	53	54	1.9				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	51	44	14.7				30 - 130	20	
1,2-Diphenylhydrazine	ND	1.6	82	80	2.5				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	51	43	17.0				30 - 130	20	
1,4-Dichlorobenzene	ND	1.0	51	44	14.7				30 - 130	20	
2,4,5-Trichlorophenol	ND	1.0	79	74	6.5				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	78	70	10.8				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	58	58	0.0				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	61	67	9.4				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	93	81	13.8				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	93	88	5.5				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	89	84	5.8				30 - 130	20	
2-Chloronaphthalene	ND	3.5	70	66	5.9				30 - 130	20	
2-Chlorophenol	ND	1.0	48	43	11.0				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	52	44	16.7				30 - 130	20	
2-Nitroaniline	ND	3.5	117	131	11.3				30 - 130	20	l
2-Nitrophenol	ND	1.0	63	69	9.1				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	57	52	9.2				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	83	74	11.5				30 - 130	20	
3-Nitroaniline	ND	5.0	91	82	10.4				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0	95	86	9.9				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	82	76	7.6				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	77	68	12.4				30 - 130	20	
4-Chloroaniline	ND	3.5	47	34	32.1				30 - 130	20	r
4-Chlorophenyl phenyl ether	ND	1.0	85	81	4.8				30 - 130	20	
4-Nitroaniline	ND	5.0	81	77	5.1				30 - 130	20	

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Nitrophenol	ND	1.0	91	84	8.0				15 - 130	20	
Acetophenone	ND	3.5	57	55	3.6				30 - 130	20	
Aniline	ND	3.5	<10	<10	NC				30 - 130	20	I
Benzidine	ND	4.5	<10	<10	NC				30 - 130	20	I
Benzoic acid	ND	10	59	48	20.6				30 - 130	20	r
Benzyl butyl phthalate	ND	1.5	88	78	12.0				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.5	56	56	0.0				30 - 130	20	
Bis(2-chloroethyl)ether	ND	1.0	43	41	4.8				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	1.0	39	32	19.7				30 - 130	20	
Carbazole	ND	5.0	89	83	7.0				30 - 130	20	
Diethyl phthalate	ND	3.5	95	93	2.1				30 - 130	20	
Dimethylphthalate	ND	1.5	87	81	7.1				30 - 130	20	
Di-n-butylphthalate	ND	1.5	88	87	1.1				30 - 130	20	
Di-n-octylphthalate	ND	1.5	94	84	11.2				30 - 130	20	
Isophorone	ND	3.5	54	62	13.8				30 - 130	20	
N-Nitrosodimethylamine	ND	1.0	46	41	11.5				30 - 130	20	
N-Nitrosodi-n-propylamine	ND	3.5	63	61	3.2				30 - 130	20	
N-Nitrosodiphenylamine	ND	3.5	81	76	6.4				30 - 130	20	
Phenol	ND	1.0	38	32	17.1				15 - 130	20	
% 2,4,6-Tribromophenol	94	%	81	86	6.0				15 - 110	20	
% 2-Fluorobiphenyl	74	%	72	67	7.2				30 - 130	20	
% 2-Fluorophenol	50	%	34	28	19.4				15 - 110	20	
% Nitrobenzene-d5	60	%	60	55	8.7				30 - 130	20	
% Phenol-d5	57	%	39	34	13.7				15 - 110	20	
% Terphenyl-d14	86	%	90	99	9.5				30 - 130	20	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 431889 (ug/L), QC Sample No: CA52473 (CA51717, CA51718, CA51719)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	88	93	5.5				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	86	92	6.7				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	96	100	4.1				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	87	95	8.8				70 - 130	30	
1,1-Dichloroethane	ND	1.0	87	92	5.6				70 - 130	30	
1,1-Dichloroethene	ND	1.0	89	95	6.5				70 - 130	30	
1,1-Dichloropropene	ND	1.0	89	95	6.5				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	95	104	9.0				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	92	95	3.2				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	92	98	6.3				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	86	89	3.4				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	101	104	2.9				70 - 130	30	
1,2-Dibromoethane	ND	1.0	89	95	6.5				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	86	91	5.6				70 - 130	30	
1,2-Dichloroethane	ND	1.0	87	92	5.6				70 - 130	30	
1,2-Dichloropropane	ND	1.0	87	93	6.7				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	86	88	2.3				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	86	90	4.5				70 - 130	30	
1,3-Dichloropropane	ND	1.0	90	94	4.3				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	84	89	5.8				70 - 130	30	
2,2-Dichloropropane	ND	1.0	89	94	5.5				70 - 130	30	
2-Chlorotoluene	ND	1.0	85	88	3.5				70 - 130	30	

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2-Hexanone	ND	5.0	92	99	7.3				70 - 130	30
2-Isopropyltoluene	ND	1.0	98	102	4.0				70 - 130	30
4-Chlorotoluene	ND	1.0	84	88	4.7				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	92	99	7.3				70 - 130	30
Acetone	ND	5.0	87	90	3.4				70 - 130	30
Acrylonitrile	ND	5.0	108	118	8.8				70 - 130	30
Benzene	ND	0.70	87	93	6.7				70 - 130	30
Bromobenzene	ND	1.0	87	91	4.5				70 - 130	30
Bromochloromethane	ND	1.0	89	94	5.5				70 - 130	30
Bromodichloromethane	ND	0.50	87	93	6.7				70 - 130	30
Bromoform	ND	1.0	90	98	8.5				70 - 130	30
Bromomethane	ND	1.0	101	110	8.5				70 - 130	30
Carbon Disulfide	ND	1.0	105	110	4.7				70 - 130	30
Carbon tetrachloride	ND	1.0	90	93	3.3				70 - 130	30
Chlorobenzene	ND	1.0	84	89	5.8				70 - 130	30
Chloroethane	ND	1.0	92	96	4.3				70 - 130	30
Chloroform	ND	1.0	85	89	4.6				70 - 130	30
Chloromethane	ND	1.0	90	97	7.5				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	89	94	5.5				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	88	94	6.6				70 - 130	30
Dibromochloromethane	ND	0.50	94	100	6.2				70 - 130	30
Dibromomethane	ND	1.0	87	94	7.7				70 - 130	30
Dichlorodifluoromethane	ND	1.0	106	114	7.3				70 - 130	30
Ethylbenzene	ND	1.0	86	90	4.5				70 - 130	30
Hexachlorobutadiene	ND	0.40	92	95	3.2				70 - 130	30
Isopropylbenzene	ND	1.0	87	89	2.3				70 - 130	30
m&p-Xylene	ND	1.0	84	89	5.8				70 - 130	30
Methyl ethyl ketone	ND	5.0	95	103	8.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	103	110	6.6				70 - 130	30
Methylene chloride	ND	1.0	83	88	5.8				70 - 130	30
Naphthalene	ND	1.0	101	108	6.7				70 - 130	30
n-Butylbenzene	ND	1.0	90	93	3.3				70 - 130	30
n-Propylbenzene	ND	1.0	87	90	3.4				70 - 130	30
o-Xylene	ND	1.0	84	90	6.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	87	92	5.6				70 - 130	30
sec-Butylbenzene	ND	1.0	91	95	4.3				70 - 130	30
Styrene	ND	1.0	85	91	6.8				70 - 130	30
tert-Butylbenzene	ND	1.0	86	89	3.4				70 - 130	30
Tetrachloroethene	ND	1.0	87	93	6.7				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	100	112	11.3				70 - 130	30
Toluene	ND	1.0	86	92	6.7				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	90	94	4.3				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	85	92	7.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	111	116	4.4				70 - 130	30
Trichloroethene	ND	1.0	86	91	5.6				70 - 130	30
Trichlorofluoromethane	ND	1.0	93	100	7.3				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	106	112	5.5				70 - 130	30
Vinyl chloride	ND	1.0	96	101	5.1				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	101	99	2.0				70 - 130	30
% Bromofluorobenzene	93	%	98	99	1.0				70 - 130	30
% Dibromofluoromethane	106	%	104	100	3.9				70 - 130	30
% Toluene-d8	97	%	99	100	1.0				70 - 130	30

QA/QC Data

SDG I.D.: GCA51710

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 31, 2018

Thursday, May 31, 2018

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GCA51710 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Tighe & Bond

Project Location: ROCKVILLE MGP ***Project Number:***

Laboratory Sample ID(s): CA51710-CA51719 ***Sampling Date(s):*** 5/22/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8260, 8270, ETPH, 9010/9012

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: SVOA Narration, SVOASIM Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Thursday, May 31, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

CTDEP RCP Laboratory Analysis QA/QC Certification Form - November 2007
Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

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RCP Certification Report

May 31, 2018

SDG I.D.: GCA51710

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 05/24/18-1 Dustin Harrison, Greg Danielewski, Chemist 05/24/18

CA51710, CA51711, CA51712

The samples were distilled in accordance with the method.
The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequencey of one per ten samples.
The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

LACHAT 05/25/18-1 Brian Sheriden, Greg Danielewski, Chemist 05/25/18

CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

The samples were distilled in accordance with the method.
The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequencey of one per ten samples.
The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

QC (Site Specific):

Batch 431836 (CA51710)

CA51710, CA51711, CA51712

All LCS recoveries were within 90 - 110 with the following exceptions: None.
All MS recoveries were within 90 - 110 with the following exceptions: None.
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

Batch 431988 (CA51714)

CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

All LCS recoveries were within 90 - 110 with the following exceptions: None.
All MS recoveries were within 90 - 110 with the following exceptions: None.
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL2 05/24/18-1 Jeff Bucko, Chemist 05/24/18

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

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ETPH Narration

The initial calibration (ETPH509I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 431758 (CA50750)

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/23/18 07:57 Rick Schweitzer, Chemist 05/23/18

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 431661 (CA50752)

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

BLUE 05/24/18 06:47 Emily Kolominskaya, Mike Arsenault, Chemist 05/24/18

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.

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Certification Report

May 31, 2018

SDG I.D.: GCA51710

ICP Metals Narration

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

BLUE 05/25/18 09:00 Mike Arsenault, Chemist 05/25/18

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51717

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 431970 (CA51657)

CA51710, CA51711, CA51712, CA51713, CA51714

All LCS recoveries were within 75 - 125 with the following exceptions: None.

Batch 431971 (CA51842)

CA51715, CA51716, CA51717, CA51718, CA51719

All LCS recoveries were within 75 - 125 with the following exceptions: None.

ICPMS Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ICPMS 05/24/18 17:10 Cindy Pearce, Chemist 05/24/18

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following samples did not meet internal standard criteria: None.

QC (Site Specific):

Batch 431756 (CA51710)

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

SVOA Narration

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RCP Certification Report

May 31, 2018

SDG I.D.: GCA51710

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 431609 (Samples: CA51710): -----

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (3,3''-Dichlorobenzidine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2-Nitrophenol, 3,3''-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, 4-Nitrophenol, Bis(2-chloroisopropyl)ether)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2,4,6-Tribromophenol, % 2-Fluorobiphenyl, % 2-Fluorophenol)

QC Batch 431761 (Samples: CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719): -----

One or more analytes is below the method criteria. A low bias for these analytes is possible. (Aniline, Benzidine)

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (2-Nitroaniline)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (4-Chloroaniline, Benzoic acid)

Instrument:

CHEM05 05/24/18-1 Damien Drobinski, Chemist 05/24/18

CA51710

Initial Calibration Verification (CHEM05/BN_0514):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/0524_02A-BN_0514):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM29 05/25/18-1 Damien Drobinski, Chemist 05/25/18

CA51711, CA51712, CA51713, CA51714, CA51715, CA51716

Initial Calibration Verification (CHEM29/BN_0524):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0525_02-BN_0524):

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RCP Certification Report

May 31, 2018

SDG I.D.: GCA51710

SVOA Narration

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM29 05/26/18-1 Damien Drobinski, Chemist 05/26/18

CA51717, CA51718, CA51719

Initial Calibration Verification (CHEM29/SPLIT_0524):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 39% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.066 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0526_02-SPLIT_0524):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
95% of target compounds met criteria.
The following compounds did not meet % deviation criteria: 2-Nitroaniline 35%L (30%), Benzoic acid 44%H (30%)
The following compounds did not meet maximum % deviations: Benzoic acid 44%H (40%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.070 (0.1)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 431609 (CA50006)

CA51710

All LCS recoveries were within 30 - 130 with the following exceptions: 3,3'-Dichlorobenzidine(20%)
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: % 2,4,6-Tribromophenol(31.1%), % 2-Fluorobiphenyl(22.0%), % 2-Fluorophenol(25.9%), 2-Nitrophenol(23.0%), 3,3'-Dichlorobenzidine(131.6%), 3-Nitroaniline(29.6%), 4-Chloroaniline(50.0%), 4-Nitrophenol(21.7%), Bis(2-chloroisopropyl)ether(21.7%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 431761 (CA51711)

CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

All LCS recoveries were within 30 - 130 with the following exceptions: Aniline(<10%), Benzidine(<10%)
All LCSD recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(131%), Aniline(<10%), Benzidine(<10%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: 4-Chloroaniline(32.1%), Benzoic acid(20.6%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 31, 2018

SDG I.D.: GCA51710

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 431609 (Samples: CA51710): -----

One or more surrogates is outside of criteria. (% 2,4,6-Tribromophenol)

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Pentachlorophenol)

QC Batch 431761 (Samples: CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Hexachlorocyclopentadiene)

Instrument:

CHEM04 05/25/18-1 Damien Drobinski, Chemist 05/25/18

CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

Initial Calibration Verification (CHEM04/SIM_0521):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/0525_02-SIM_0521):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Hexachloroethane 0.282 (0.3)
The following compounds did not meet minimum response factors: None.

CHEM25 05/24/18-1 Damien Drobinski, Chemist 05/24/18

CA51710

Initial Calibration Verification (CHEM25/SIM_0410):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Hexachloroethane 0.265 (0.3)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM25/0524_02-SIM_0410):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

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RCP Certification Report

May 31, 2018

SDG I.D.: GCA51710

SVOASIM Narration

98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 431609 (CA50006)

CA51710

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: % 2,4,6-Tribromophenol(112%), Pentachlorophenol(136%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 431761 (CA51711)

CA51711, CA51712, CA51713, CA51714, CA51715, CA51716, CA51717, CA51718, CA51719

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: Hexachlorocyclopentadiene(20.9%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM02 05/23/18-2 Michael Hahn, Chemist 05/23/18

CA51717, CA51718, CA51719

Initial Calibration Verification (CHEM02/VT-P0522):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 22% (20%), Bromomethane 24% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.035 (0.05), 2-Hexanone 0.093 (0.1), Acetone 0.052 (0.1), Bromoform 0.094 (0.1), Methyl ethyl ketone 0.076 (0.1), Tetrahydrofuran (THF) 0.046 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/0523P29-VT-P0522):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.040 (0.05)
The following compounds did not meet minimum response factors: None.

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Tel. (860) 645-1102 Fax (860) 645-0823

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RCP Certification Report

May 31, 2018

SDG I.D.: GCA51710

VOA Narration

CHEM17 05/23/18-2 Michael Hahn, Chemist 05/23/18

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716

Initial Calibration Verification (CHEM17/VT-S0523):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 23% (20%), Bromomethane 25% (20%), trans-1,4-dichloro-2-butene 27% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.041 (0.05), 2-Hexanone 0.093 (0.1), Acetone 0.053 (0.1), Methyl ethyl ketone 0.078 (0.1), Tetrahydrofuran (THF) 0.048 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/0523_16-VT-S0523):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.043 (0.05), Tetrahydrofuran (THF) 0.047 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 431889 (CA52473)

CA51717, CA51718, CA51719

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 431933 (CA51378)

CA51710, CA51711, CA51712, CA51713, CA51714, CA51715, CA51716

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 1.4C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐
Temp 1.4 °C Pg 1 of

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☑ Email: LEWilley@tighebond.com

Customer: Tighe + Bond
Address: 213 Court St
Middletown, CT

Project: Rockville MGP
Report to: Lynn Willey
Invoice to: Tighe + Bond
Westfield Office

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature [signature] Date: 5/22/18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request: VOC, SVOC, Metals (RCP/RSR), ETPH, Total Cyanide

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC	SVOC	Metals (RCP/RSR)	ETPH	Total Cyanide	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is ☒ HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
51710	MW-4S	GW	5/22/18	9:25	/	/	/	/	/					3	3			1	1		
51711	MW-4D	↓	↓	11:45	/	/	/	/	/					3	3			1	1		
51712	MW-6S	↓	↓	14:20	/	/	/	/	/					3	3			1	1		
51713	MW-6D	↓	↓	15:45	/	/	/	/	/					3	3			1	1		
51714	MW-11S	↓	↓	9:32	/	/	/	/	/					3	3			1	1		
51715	MW-11D	↓	↓	10:57	/	/	/	/	/					3	3			1	1		
51716	MW-12S	↓	↓	1:32p	/	/	/	/	/					3	3			1	1		
51717	MW-12D	↓	↓	3:05p	/	/	/	/	/					3	3			1	1		
51718	*MW-16S 16S	↓	↓	13:05	/	/	/	/	/					3	3			1	1		
51719	MW-DUP	↓	↓	9:26	/	/	/	/	/					3	3			1	1		
	[illegible]	GW	–	–	/									[illegible]							

Relinquished by:	Accepted by:	Date:	Time:
[signature]	TROUM	5/22/18	17:31

Comments, Special Requirements or Regulations:
DAS rates
* MW-16S

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☑ RCP Cert
☐ GW Protection
☑ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☑ Other RCS VC

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☑ Other Geotech

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☑ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

State where samples were collected: CT

PHOENIX
Environmental Laboratories, Inc.

Monday, November 05, 2018

Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: ROCKVILLE MGP
Sample ID#s: CB82836 - CB82852

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

PHOENIX
Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

November 05, 2018

SDG I.D.: GCB82836

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, this compound is analyzed by GC/ECD to achieve this criteria.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	9:26
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82836

Project ID: ROCKVILLE MGP
Client ID: MW-4SR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.118	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/30/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	0.019	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	0.013	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4SR

Phoenix I.D.: CB82836

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4SR

Phoenix I.D.: CB82836

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrachloroethene	1.0	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	96		%	1	10/31/18	MH	70 - 130 %
% Toluene-d8	91		%	1	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.6	ug/L	1	10/29/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	10/29/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.6	ug/L	1	10/29/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.6	ug/L	1	10/29/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	10/29/18	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	10/29/18	WB	SW8270D
2-Chloronaphthalene	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
2-Chlorophenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
2-Nitroaniline	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
2-Nitrophenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	10/29/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	10/29/18	WB	SW8270D
3-Nitroaniline	ND	5.1	ug/L	1	10/29/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4SR

Phoenix I.D.: CB82836

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	10/29/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
4-Nitroaniline	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
4-Nitrophenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
Acetophenone	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Aniline	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	10/29/18	WB	SW8270D
Benzoic acid	ND	51	ug/L	1	10/29/18	WB	SW8270D
Benzyl butyl phthalate	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	10/29/18	WB	SW8270D
Diethyl phthalate	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Dimethylphthalate	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Di-n-butylphthalate	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Di-n-octylphthalate	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Isophorone	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	10/29/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10/29/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.1	ug/L	1	10/29/18	WB	SW8270D
Phenol	ND	1.0	ug/L	1	10/29/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	91		%	1	10/29/18	WB	15 - 110 %
% 2-Fluorobiphenyl	79		%	1	10/29/18	WB	30 - 130 %
% 2-Fluorophenol	40		%	1	10/29/18	WB	15 - 110 %
% Nitrobenzene-d5	63		%	1	10/29/18	WB	30 - 130 %
% Phenol-d5	47		%	1	10/29/18	WB	15 - 110 %
% Terphenyl-d14	74		%	1	10/29/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.51	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	1.0	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	0.69	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	0.37	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	0.31	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.20	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.51	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	0.20	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	0.93	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-4SR

Phoenix I.D.: CB82836

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.51	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.51	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.82	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	0.07	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	1.0	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.51	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	75		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	55		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	75		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	70		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	79		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	10:44
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82837

Project ID: ROCKVILLE MGP
Client ID: MW-25S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.112	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/30/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	0.014	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.068	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-25S

Phoenix I.D.: CB82837

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-25S

Phoenix I.D.: CB82837

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	92		%	1	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	94		%	1	10/31/18	MH	70 - 130 %
% Toluene-d8	90		%	1	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	10/31/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	10/31/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	10/31/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
2,4-Dichlorophenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
2,4-Dimethylphenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
2,4-Dinitrophenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
2,4-Dinitrotoluene	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
2,6-Dinitrotoluene	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
2-Chloronaphthalene	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
2-Chlorophenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
2-Nitroaniline	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
2-Nitrophenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.6	ug/L	1	10/31/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
3-Nitroaniline	ND	4.8	ug/L	1	10/31/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-25S

Phoenix I.D.: CB82837

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
4-Chloroaniline	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
4-Nitroaniline	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
4-Nitrophenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
Acetophenone	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Aniline	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Benzidine	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Benzoic acid	ND	48	ug/L	1	10/31/18	WB	SW8270D
Benzyl butyl phthalate	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Carbazole	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Diethyl phthalate	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Dimethylphthalate	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Di-n-butylphthalate	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Di-n-octylphthalate	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Isophorone	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
N-Nitrosodimethylamine	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	10/31/18	WB	SW8270D
Phenol	ND	0.96	ug/L	1	10/31/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	89		%	1	10/31/18	WB	15 - 110 %
% 2-Fluorobiphenyl	65		%	1	10/31/18	WB	30 - 130 %
% 2-Fluorophenol	51		%	1	10/31/18	WB	15 - 110 %
% Nitrobenzene-d5	63		%	1	10/31/18	WB	30 - 130 %
% Phenol-d5	61		%	1	10/31/18	WB	15 - 110 %
% Terphenyl-d14	68		%	1	10/31/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	0.96	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	0.23	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	0.13	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	0.08	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	0.18	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-25S

Phoenix I.D.: CB82837

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.77	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	94		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	75		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	68		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	80		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	81		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	75		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	11:34
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82838

Project ID: ROCKVILLE MGP
Client ID: MW-10BR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.160	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/30/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/30/18	P/D/D	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.090	0.077	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	56		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-10BR

Phoenix I.D.: CB82838

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroform	3.4	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-10BR

Phoenix I.D.: CB82838

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	91		%	1	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	94		%	1	10/31/18	MH	70 - 130 %
% Toluene-d8	90		%	1	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.6	ug/L	1	11/02/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	11/02/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.6	ug/L	1	11/02/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.6	ug/L	1	11/02/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
2,4-Dichlorophenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
2,4-Dimethylphenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
2,4-Dinitrophenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	11/02/18	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	11/02/18	WB	SW8270D
2-Chloronaphthalene	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
2-Chlorophenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
2-Nitroaniline	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
2-Nitrophenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	1	11/02/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	11/02/18	WB	SW8270D
3-Nitroaniline	ND	5.3	ug/L	1	11/02/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-10BR

Phoenix I.D.: CB82838

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	11/02/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
4-Nitroaniline	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
4-Nitrophenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
Acetophenone	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Aniline	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	11/02/18	WB	SW8270D
Benzoic acid	ND	53	ug/L	1	11/02/18	WB	SW8270D
Benzyl butyl phthalate	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	11/02/18	WB	SW8270D
Diethyl phthalate	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Dimethylphthalate	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Di-n-butylphthalate	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Di-n-octylphthalate	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Isophorone	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	11/02/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	11/02/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.3	ug/L	1	11/02/18	WB	SW8270D
Phenol	ND	1.1	ug/L	1	11/02/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	88		%	1	11/02/18	WB	15 - 110 %
% 2-Fluorobiphenyl	66		%	1	11/02/18	WB	30 - 130 %
% 2-Fluorophenol	33		%	1	11/02/18	WB	15 - 110 %
% Nitrobenzene-d5	61		%	1	11/02/18	WB	30 - 130 %
% Phenol-d5	38		%	1	11/02/18	WB	15 - 110 %
% Terphenyl-d14	77		%	1	11/02/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.53	ug/L	1	11/01/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	1.1	ug/L	1	11/01/18	HM	SW8270D (SIM)
Acenaphthene	0.05	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Acenaphthylene	0.07	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.21	ug/L	1	11/01/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.53	ug/L	1	11/01/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Fluorene	ND	0.11	ug/L	1	11/01/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-10BR

Phoenix I.D.: CB82838

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.53	ug/L	1	11/01/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.53	ug/L	1	11/01/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Naphthalene	0.31	0.11	ug/L	1	11/01/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.11	ug/L	1	11/01/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	1	11/01/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.84	ug/L	1	11/01/18	HM	SW8270D (SIM)
Phenanthrene	0.12	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	11/01/18	HM	SW8270D (SIM)
Pyridine	ND	0.53	ug/L	1	11/01/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	83		%	1	11/01/18	HM	15 - 110 %
% 2-Fluorobiphenyl	63		%	1	11/01/18	HM	30 - 130 %
% 2-Fluorophenol	39		%	1	11/01/18	HM	15 - 110 %
% Nitrobenzene-d5	69		%	1	11/01/18	HM	30 - 130 %
% Phenol-d5	43		%	1	11/01/18	HM	15 - 110 %
% Terphenyl-d14	74		%	1	11/01/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	12:26
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82839

Project ID: ROCKVILLE MGP
Client ID: MW-30S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.047	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/30/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	0.031	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.55	0.069	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	54		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-30S

Phoenix I.D.: CB82839

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	13	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Ethylbenzene	2.3	1.0	ug/L	1	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Isopropylbenzene	1.3	1.0	ug/L	1	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-30S

Phoenix I.D.: CB82839

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	4.4	1.0	ug/L	1	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Naphthalene	180	10	ug/L	10	10/31/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
o-Xylene	9.7	1.0	ug/L	1	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Total Xylenes	14.1	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	88		%	1	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	92		%	1	10/31/18	MH	70 - 130 %
% Toluene-d8	91		%	1	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.9	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-30S

Phoenix I.D.: CB82839

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	50	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Naphthalene	110	49	ug/L	10	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	107		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	61		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	37		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	54		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	47		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	68		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	1.5	0.99	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	5.6	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	3.2	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	1.5	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	0.13	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	0.07	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.20	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	0.15	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	0.39	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	0.99	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-30S

Phoenix I.D.: CB82839

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluorene	3.7	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.79	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	1.2	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	1.4	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	86		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	61		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	44		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	60		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	56		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	69		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	14:03
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82840

Project ID: ROCKVILLE MGP
Client ID: MW-3BR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.230	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	0.005	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/30/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.071	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-3BR

Phoenix I.D.: CB82840

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-3BR

Phoenix I.D.: CB82840

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	10/31/18	MH	70 - 130 %
% Toluene-d8	91		%	1	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.8	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.8	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.8	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	5.6	ug/L	1	10/30/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-3BR

Phoenix I.D.: CB82840

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	56	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.6	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	104		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	72		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	57		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	66		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	67		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	82		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.56	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	1.1	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.22	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.56	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.11	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-3BR

Phoenix I.D.: CB82840

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.56	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.56	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	ND	0.20	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.11	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.90	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	ND	0.06	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.56	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	99		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	72		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	64		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	78		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	79		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	81		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	14:30
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82841

Project ID: ROCKVILLE MGP
Client ID: MW-18D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.198	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/30/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	2.8	0.068	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	66		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-18D

Phoenix I.D.: CB82841

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	2.5	ug/L	10	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	10	ug/L	10	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	10	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/L	10	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	10	ug/L	10	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	7.0	ug/L	10	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	10	ug/L	10	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	10	ug/L	10	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	9.6	ug/L	10	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	98	10	ug/L	10	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	10	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	2.5	ug/L	10	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	2.5	ug/L	10	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	5.0	ug/L	10	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	29	10	ug/L	10	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	10	ug/L	10	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	10	ug/L	10	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	10	ug/L	10	10/31/18	MH	SW8260C
2-Hexanone	ND	35	ug/L	10	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	10	ug/L	10	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	10	ug/L	10	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	50	ug/L	10	10/31/18	MH	SW8260C
Acetone	ND	250	ug/L	10	10/31/18	MH	SW8260C
Acrylonitrile	ND	2.5	ug/L	10	10/31/18	MH	SW8260C
Benzene	680	70	ug/L	100	10/31/18	MH	SW8260C
Bromobenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
Bromochloromethane	ND	10	ug/L	10	10/31/18	MH	SW8260C
Bromodichloromethane	ND	2.5	ug/L	10	10/31/18	MH	SW8260C
Bromoform	ND	4.0	ug/L	10	10/31/18	MH	SW8260C
Bromomethane	ND	3.5	ug/L	10	10/31/18	MH	SW8260C
Carbon Disulfide	ND	40	ug/L	10	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	5.0	ug/L	10	10/31/18	MH	SW8260C
Chlorobenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
Chloroethane	ND	7.4	ug/L	10	10/31/18	MH	SW8260C
Chloroform	ND	6.0	ug/L	10	10/31/18	MH	SW8260C
Chloromethane	ND	10	ug/L	10	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	10	ug/L	10	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	4.0	ug/L	10	10/31/18	MH	SW8260C
Dibromochloromethane	ND	2.5	ug/L	10	10/31/18	MH	SW8260C
Dibromomethane	ND	10	ug/L	10	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	10	ug/L	10	10/31/18	MH	SW8260C
Ethylbenzene	430	100	ug/L	100	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	4.0	ug/L	10	10/31/18	MH	SW8260C
Isopropylbenzene	26	10	ug/L	10	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-18D

Phoenix I.D.: CB82841

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	360	10	ug/L	10	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	50	ug/L	10	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/L	10	10/31/18	MH	SW8260C
Methylene chloride	ND	10	ug/L	10	10/31/18	MH	SW8260C
Naphthalene	2900	100	ug/L	100	10/31/18	MH	SW8260C
n-Butylbenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
n-Propylbenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
o-Xylene	270	10	ug/L	10	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	10	ug/L	10	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
Styrene	ND	10	ug/L	10	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	10	ug/L	10	10/31/18	MH	SW8260C
Tetrachloroethene	ND	5.0	ug/L	10	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	25	ug/L	10	10/31/18	MH	SW8260C
Toluene	880	100	ug/L	100	10/31/18	MH	SW8260C
Total Xylenes	630	10	ug/L	10	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	10	ug/L	10	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	4.0	ug/L	10	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	50	ug/L	10	10/31/18	MH	SW8260C
Trichloroethene	ND	5.0	ug/L	10	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	10	ug/L	10	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	10	ug/L	10	10/31/18	MH	SW8260C
Vinyl chloride	ND	2.5	ug/L	10	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	10	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	93		%	10	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	120		%	10	10/31/18	MH	70 - 130 %
% Toluene-d8	92		%	10	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2-Methylnaphthalene	130	49	ug/L	50	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	4.9	ug/L	1	10/30/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-18D

Phoenix I.D.: CB82841

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Acenaphthene	75	4.9	ug/L	1	10/30/18	WB	SW8270D
Acenaphthylene	21	4.9	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	6.1	ug/L	1	10/30/18	WB	SW8270D
Anthracene	5.5	4.9	ug/L	1	10/30/18	WB	SW8270D
Benz(a)anthracene	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Benzo(a)pyrene	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Benzo(b)fluoranthene	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Benzo(ghi)perylene	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Benzo(k)fluoranthene	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	9.8	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/L	1	10/30/18	WB	SW8270D
Carbazole	7.0	4.9	ug/L	1	10/30/18	WB	SW8270D
Chrysene	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Dibenzofuran	2.9	0.98	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Fluoranthene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Fluorene	22	4.9	ug/L	1	10/30/18	WB	SW8270D
Hexachlorobenzene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Hexachlorobutadiene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Hexachlorocyclopentadiene	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Hexachloroethane	ND	3.0	ug/L	1	10/30/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Naphthalene	1900	250	ug/L	50	10/30/18	WB	SW8270D
Nitrobenzene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Pentachloronitrobenzene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Pentachlorophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D

Project ID: ROCKVILLE MGP
Client ID: MW-18D

Phoenix I.D.: CB82841

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	28	4.9	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Pyrene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Pyridine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	76		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	63		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	53		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	56		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	40		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	75		%	1	10/30/18	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Semi-Volatile Comment:
Due to the presence of a large amount of non-target petroleum material, this sample required a dilution and/or could not be analyzed via SIM; some compounds are evaluated below the lowest calibration standard.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	16:05
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82842

Project ID: ROCKVILLE MGP
Client ID: MW-13S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.261	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	0.104	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	0.159	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/30/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	0.005	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.072	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-13S

Phoenix I.D.: CB82842

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	10/31/18	MH	70 - 130 %
% Toluene-d8	90		%	1	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.6	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.6	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.6	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	5.3	ug/L	1	10/30/18	WB	SW8270D

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	53	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.3	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	1.1	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	87		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	56		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	37		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	47		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	49		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	72		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.53	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	1.1	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.21	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	0.64	0.53	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.11	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-13S

Phoenix I.D.: CB82842

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.53	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.53	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	ND	0.20	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.11	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.84	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.53	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	86		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	60		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	46		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	53		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	56		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	76		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	8:35
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82843

Project ID: ROCKVILLE MGP
Client ID: MW-26S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.197	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	0.003	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/30/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.071	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26S

Phoenix I.D.: CB82843

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26S

Phoenix I.D.: CB82843

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	96		%	1	10/31/18	MH	70 - 130 %
% Toluene-d8	91		%	1	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D

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Phoenix I.D.: CB82843

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	50	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	5.4	5.0	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	41		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	58		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	54		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	79		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	1.0	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.20	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26S

Phoenix I.D.: CB82843

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.80	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	94		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	70		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	53		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	69		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	65		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	82		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	9:10
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82844

Project ID: ROCKVILLE MGP
Client ID: MW-28S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.227	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	0.002	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/30/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-28S

Phoenix I.D.: CB82844

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-28S

Phoenix I.D.: CB82844

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	10/31/18	MH	70 - 130 %
% Toluene-d8	91		%	1	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	10/30/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-28S

Phoenix I.D.: CB82844

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	47	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	0.94	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	99		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	66		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	42		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	57		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	58		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	78		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-28S

Phoenix I.D.: CB82844

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	0.10	0.09	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	94		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	66		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	53		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	64		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	68		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	78		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	10:20
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82845

Project ID: ROCKVILLE MGP
Client ID: MW-26D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.052	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	0.004	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/31/18	CPP	SW6020B
Vanadium	0.003	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.069	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26D

Phoenix I.D.: CB82845

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloroform	1.3	1.0	ug/L	1	10/31/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26D

Phoenix I.D.: CB82845

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Naphthalene	1.3	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	10/31/18	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	10/31/18	MH	70 - 130 %
% Dibromofluoromethane	96		%	1	10/31/18	MH	70 - 130 %
% Toluene-d8	91		%	1	10/31/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.9	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26D

Phoenix I.D.: CB82845

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	50	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	0.99	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	92		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	47		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	68		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	60		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	74		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	0.99	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	0.20	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	0.55	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.20	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	0.08	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	0.36	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)

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Project ID: ROCKVILLE MGP
Client ID: MW-26D

Phoenix I.D.: CB82845

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	1.1	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.79	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	0.25	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	0.10	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	93		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	75		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	64		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	85		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	78		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	79		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	11:40
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82846

Project ID: ROCKVILLE MGP
Client ID: MW-27S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.268	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	0.002	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	0.002	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/31/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	0.006	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.069	0.067	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-27S

Phoenix I.D.: CB82846

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-27S

Phoenix I.D.: CB82846

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	HM	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	10/31/18	HM	70 - 130 %
% Bromofluorobenzene	90		%	1	10/31/18	HM	70 - 130 %
% Dibromofluoromethane	104		%	1	10/31/18	HM	70 - 130 %
% Toluene-d8	99		%	1	10/31/18	HM	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.8	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	10/30/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-27S

Phoenix I.D.: CB82846

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	49	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	0.98	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	92		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	63		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	46		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	62		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	58		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	73		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.49	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	0.98	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.20	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.49	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-27S

Phoenix I.D.: CB82846

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.49	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	0.15	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.78	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	93		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	68		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	59		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	73		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	72		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	77		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	11:42
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82847

Project ID: ROCKVILLE MGP
Client ID: MW-26BR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.100	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	0.002	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/31/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26BR

Phoenix I.D.: CB82847

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26BR

Phoenix I.D.: CB82847

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	HM	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	10/31/18	HM	70 - 130 %
% Bromofluorobenzene	92		%	1	10/31/18	HM	70 - 130 %
% Dibromofluoromethane	103		%	1	10/31/18	HM	70 - 130 %
% Toluene-d8	103		%	1	10/31/18	HM	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.6	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26BR

Phoenix I.D.: CB82847

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	48	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	59		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	41		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	52		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	53		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	74		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	0.96	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-26BR
Phoenix I.D.: CB82847

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	0.10	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.77	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	88		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	53		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	66		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	67		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	77		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	13:37
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82848

Project ID: ROCKVILLE MGP
Client ID: MW-13D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.217	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	0.053	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	0.173	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/31/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	0.005	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.069	mg/L	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	10/29/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-13D

Phoenix I.D.: CB82848

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-13D

Phoenix I.D.: CB82848

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	HM	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	10/31/18	HM	70 - 130 %
% Bromofluorobenzene	86		%	1	10/31/18	HM	70 - 130 %
% Dibromofluoromethane	106		%	1	10/31/18	HM	70 - 130 %
% Toluene-d8	97		%	1	10/31/18	HM	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.6	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-13D

Phoenix I.D.: CB82848

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	48	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	0.96	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	97		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	66		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	44		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	60		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	55		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	73		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	0.96	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-13D

Phoenix I.D.: CB82848

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	0.82	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.77	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.48	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	95		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	59		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	78		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	73		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	79		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	14:10
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82849

Project ID: ROCKVILLE MGP
Client ID: MW-7D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.298	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/31/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.069	mg/L	1	10/30/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	10/30/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-7D

Phoenix I.D.: CB82849

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-7D

Phoenix I.D.: CB82849

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	HM	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	10/31/18	HM	70 - 130 %
% Bromofluorobenzene	86		%	1	10/31/18	HM	70 - 130 %
% Dibromofluoromethane	102		%	1	10/31/18	HM	70 - 130 %
% Toluene-d8	102		%	1	10/31/18	HM	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	10/30/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chloronaphthalene	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Chlorophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
2-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
2-Nitrophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	10/30/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
3-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-7D

Phoenix I.D.: CB82849

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
4-Nitroaniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
4-Nitrophenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
Acetophenone	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Aniline	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Benzoic acid	ND	50	ug/L	1	10/30/18	WB	SW8270D
Benzyl butyl phthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Diethyl phthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Dimethylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Di-n-butylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Di-n-octylphthalate	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Isophorone	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	10/30/18	WB	SW8270D
Phenol	ND	1.0	ug/L	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	98		%	1	10/30/18	WB	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	10/30/18	WB	30 - 130 %
% 2-Fluorophenol	51		%	1	10/30/18	WB	15 - 110 %
% Nitrobenzene-d5	71		%	1	10/30/18	WB	30 - 130 %
% Phenol-d5	66		%	1	10/30/18	WB	15 - 110 %
% Terphenyl-d14	78		%	1	10/30/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	1.0	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.20	ug/L	1	10/29/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-7D

Phoenix I.D.: CB82849

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.80	ug/L	1	10/29/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/29/18	HM	SW8270D (SIM)
Pyridine	ND	0.50	ug/L	1	10/29/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	92		%	1	10/29/18	HM	15 - 110 %
% 2-Fluorobiphenyl	70		%	1	10/29/18	HM	30 - 130 %
% 2-Fluorophenol	61		%	1	10/29/18	HM	15 - 110 %
% Nitrobenzene-d5	73		%	1	10/29/18	HM	30 - 130 %
% Phenol-d5	72		%	1	10/29/18	HM	15 - 110 %
% Terphenyl-d14	77		%	1	10/29/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	14:36
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82850

Project ID: ROCKVILLE MGP
Client ID: MW-DUP

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	0.204	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/31/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	10/31/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	3.2	0.069	mg/L	1	10/30/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	10/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	10/30/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-DUP

Phoenix I.D.: CB82850

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
1,1,1-Trichloroethane	ND	20	ug/L	20	10/31/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
1,1-Dichloroethane	ND	20	ug/L	20	10/31/18	HM	SW8260C
1,1-Dichloroethene	ND	7.0	ug/L	20	10/31/18	HM	SW8260C
1,1-Dichloropropene	ND	20	ug/L	20	10/31/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
1,2,3-Trichloropropane	ND	20	ug/L	20	10/31/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	9.6	ug/L	20	10/31/18	HM	SW8260C
1,2,4-Trimethylbenzene	120	20	ug/L	20	10/31/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	10	ug/L	20	10/31/18	HM	SW8260C
1,2-Dibromoethane	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
1,2-Dichlorobenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
1,2-Dichloroethane	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
1,2-Dichloropropane	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
1,3,5-Trimethylbenzene	36	20	ug/L	20	10/31/18	HM	SW8260C
1,3-Dichlorobenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
1,3-Dichloropropane	ND	20	ug/L	20	10/31/18	HM	SW8260C
1,4-Dichlorobenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
2,2-Dichloropropane	ND	20	ug/L	20	10/31/18	HM	SW8260C
2-Chlorotoluene	ND	20	ug/L	20	10/31/18	HM	SW8260C
2-Hexanone	ND	40	ug/L	20	10/31/18	HM	SW8260C
2-Isopropyltoluene	ND	20	ug/L	20	10/31/18	HM	SW8260C
4-Chlorotoluene	ND	20	ug/L	20	10/31/18	HM	SW8260C
4-Methyl-2-pentanone	ND	100	ug/L	20	10/31/18	HM	SW8260C
Acetone	ND	500	ug/L	20	10/31/18	HM	SW8260C
Acrylonitrile	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
Benzene	890	140	ug/L	200	10/31/18	HM	SW8260C
Bromobenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
Bromochloromethane	ND	20	ug/L	20	10/31/18	HM	SW8260C
Bromodichloromethane	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
Bromoform	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
Bromomethane	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
Carbon Disulfide	ND	40	ug/L	20	10/31/18	HM	SW8260C
Carbon tetrachloride	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
Chlorobenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
Chloroethane	ND	7.4	ug/L	20	10/31/18	HM	SW8260C
Chloroform	ND	6.0	ug/L	20	10/31/18	HM	SW8260C
Chloromethane	ND	18	ug/L	20	10/31/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	20	ug/L	20	10/31/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	8.0	ug/L	20	10/31/18	HM	SW8260C
Dibromochloromethane	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
Dibromomethane	ND	20	ug/L	20	10/31/18	HM	SW8260C
Dichlorodifluoromethane	ND	20	ug/L	20	10/31/18	HM	SW8260C
Ethylbenzene	860	200	ug/L	200	10/31/18	HM	SW8260C
Hexachlorobutadiene	ND	7.4	ug/L	20	10/31/18	HM	SW8260C
Isopropylbenzene	36	20	ug/L	20	10/31/18	HM	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-DUP

Phoenix I.D.: CB82850

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	650	20	ug/L	20	10/31/18	HM	SW8260C
Methyl ethyl ketone	ND	100	ug/L	20	10/31/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	ug/L	20	10/31/18	HM	SW8260C
Methylene chloride	ND	20	ug/L	20	10/31/18	HM	SW8260C
Naphthalene	3400	200	ug/L	200	10/31/18	HM	SW8260C
n-Butylbenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
n-Propylbenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
o-Xylene	420	20	ug/L	20	10/31/18	HM	SW8260C
p-Isopropyltoluene	ND	20	ug/L	20	10/31/18	HM	SW8260C
sec-Butylbenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
Styrene	ND	20	ug/L	20	10/31/18	HM	SW8260C
tert-Butylbenzene	ND	20	ug/L	20	10/31/18	HM	SW8260C
Tetrachloroethene	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	50	ug/L	20	10/31/18	HM	SW8260C
Toluene	1300	200	ug/L	200	10/31/18	HM	SW8260C
Total Xylenes	1070	20	ug/L	20	10/31/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	20	ug/L	20	10/31/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	8.0	ug/L	20	10/31/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	100	ug/L	20	10/31/18	HM	SW8260C
Trichloroethene	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
Trichlorofluoromethane	ND	20	ug/L	20	10/31/18	HM	SW8260C
Trichlorotrifluoroethane	ND	20	ug/L	20	10/31/18	HM	SW8260C
Vinyl chloride	ND	5.0	ug/L	20	10/31/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	20	10/31/18	HM	70 - 130 %
% Bromofluorobenzene	96		%	20	10/31/18	HM	70 - 130 %
% Dibromofluoromethane	119		%	20	10/31/18	HM	70 - 130 %
% Toluene-d8	102		%	20	10/31/18	HM	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
1,2-Dichlorobenzene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
1,3-Dichlorobenzene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
1,4-Dichlorobenzene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2,4,5-Trichlorophenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2,4,6-Trichlorophenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2,4-Dichlorophenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2,4-Dimethylphenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2,4-Dinitrophenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2-Chloronaphthalene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2-Chlorophenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2-Methylnaphthalene	230	50	ug/L	50	10/30/18	PS	SW8270D
2-Methylphenol (o-cresol)	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2-Nitroaniline	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
2-Nitrophenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	5.0	ug/L	1	10/30/18	PS	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-DUP

Phoenix I.D.: CB82850

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
3-Nitroaniline	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
4-Chloro-3-methylphenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
4-Nitroaniline	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
4-Nitrophenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Acenaphthene	ND	150	ug/L	50	10/30/18	PS	SW8270D
Acenaphthylene	20	5.0	ug/L	1	10/30/18	PS	SW8270D
Acetophenone	ND	9.9	ug/L	1	10/30/18	PS	SW8270D
Aniline	ND	6.1	ug/L	1	10/30/18	PS	SW8270D
Anthracene	5.8	5.0	ug/L	1	10/30/18	PS	SW8270D
Benz(a)anthracene	ND	0.99	ug/L	1	10/30/18	PS	SW8270D
Benzidine	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Benzo(a)pyrene	ND	0.99	ug/L	1	10/30/18	PS	SW8270D
Benzo(b)fluoranthene	ND	0.99	ug/L	1	10/30/18	PS	SW8270D
Benzo(ghi)perylene	ND	0.99	ug/L	1	10/30/18	PS	SW8270D
Benzo(k)fluoranthene	ND	0.99	ug/L	1	10/30/18	PS	SW8270D
Benzoic acid	ND	15	ug/L	1	10/30/18	PS	SW8270D
Benzyl butyl phthalate	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Bis(2-chloroethyl)ether	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/L	1	10/30/18	PS	SW8270D
Carbazole	8.0	5.0	ug/L	1	10/30/18	PS	SW8270D
Chrysene	ND	0.99	ug/L	1	10/30/18	PS	SW8270D
Dibenz(a,h)anthracene	ND	0.99	ug/L	1	10/30/18	PS	SW8270D
Dibenzofuran	3.5	0.99	ug/L	1	10/30/18	PS	SW8270D
Diethyl phthalate	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Dimethylphthalate	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Di-n-butylphthalate	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Di-n-octylphthalate	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Fluoranthene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Fluorene	25	5.0	ug/L	1	10/30/18	PS	SW8270D
Hexachlorobenzene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Hexachlorobutadiene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Hexachlorocyclopentadiene	ND	0.99	ug/L	1	10/30/18	PS	SW8270D
Hexachloroethane	ND	3.0	ug/L	1	10/30/18	PS	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.99	ug/L	1	10/30/18	PS	SW8270D
Isophorone	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Naphthalene	3300	250	ug/L	50	10/30/18	PS	SW8270D
Nitrobenzene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Pentachloronitrobenzene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Pentachlorophenol	ND	1.0	ug/L	1	10/30/18	PS	SW8270D

Project ID: ROCKVILLE MGP
Client ID: MW-DUP

Phoenix I.D.: CB82850

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	30	5.0	ug/L	1	10/30/18	PS	SW8270D
Phenol	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Pyrene	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
Pyridine	ND	5.0	ug/L	1	10/30/18	PS	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	83		%	1	10/30/18	PS	15 - 110 %
% 2-Fluorobiphenyl	70		%	1	10/30/18	PS	30 - 130 %
% 2-Fluorophenol	71		%	1	10/30/18	PS	15 - 110 %
% Nitrobenzene-d5	68		%	1	10/30/18	PS	30 - 130 %
% Phenol-d5	44		%	1	10/30/18	PS	15 - 110 %
% Terphenyl-d14	79		%	1	10/30/18	PS	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Semi-Volatile Comment:
Due to the presence of a large amount of non-target petroleum material, this sample required a dilution and/or could not be analyzed via SIM; some compounds are evaluated below the lowest calibration standard.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	15:00
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82851

Project ID: ROCKVILLE MGP
Client ID: EQ BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Barium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Chromium	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	10/29/18	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	10/27/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	10/27/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	10/27/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	10/31/18	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	10/27/18	CPP	SW6010C
Zinc	< 0.004	0.004	mg/L	1	10/27/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	11/01/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				10/26/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				10/29/18	EV/EV	SW7470A
Semi-Volatile Extraction	Completed				10/26/18	P/D/R	SW3520C
Total Metals Digestion	Completed				10/26/18	AG	
Total Metals Digestion MS	Completed				10/27/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.071	mg/L	1	10/30/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	60		%	1	10/30/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: EQ BLANK

Phoenix I.D.: CB82851

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	HM	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Acetone	ND	25	ug/L	1	10/31/18	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Benzene	ND	0.70	ug/L	1	10/31/18	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: EQ BLANK

Phoenix I.D.: CB82851

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Styrene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	HM	SW8260C
Toluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	106		%	1	10/31/18	HM	70 - 130 %
% Bromofluorobenzene	89		%	1	10/31/18	HM	70 - 130 %
% Dibromofluoromethane	102		%	1	10/31/18	HM	70 - 130 %
% Toluene-d8	97		%	1	10/31/18	HM	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	10/31/18	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	10/31/18	WB	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	10/31/18	WB	SW8270D
2,4,5-Trichlorophenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
2,4,6-Trichlorophenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
2,4-Dichlorophenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
2,4-Dimethylphenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
2,4-Dinitrophenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
2-Chloronaphthalene	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
2-Chlorophenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
2-Nitroaniline	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
2-Nitrophenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.9	ug/L	1	10/31/18	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
3-Nitroaniline	ND	5.0	ug/L	1	10/31/18	WB	SW8270D

Ver 1

Project ID: ROCKVILLE MGP
Client ID: EQ BLANK
Phoenix I.D.: CB82851

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,6-Dinitro-2-methylphenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
4-Nitroaniline	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
4-Nitrophenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
Acetophenone	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Aniline	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Benzoic acid	ND	50	ug/L	1	10/31/18	WB	SW8270D
Benzyl butyl phthalate	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Diethyl phthalate	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Dimethylphthalate	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Di-n-butylphthalate	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Di-n-octylphthalate	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Isophorone	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	10/31/18	WB	SW8270D
Phenol	ND	0.99	ug/L	1	10/31/18	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	86		%	1	10/31/18	WB	15 - 110 %
% 2-Fluorobiphenyl	56		%	1	10/31/18	WB	30 - 130 %
% 2-Fluorophenol	34		%	1	10/31/18	WB	15 - 110 %
% Nitrobenzene-d5	52		%	1	10/31/18	WB	30 - 130 %
% Phenol-d5	40		%	1	10/31/18	WB	15 - 110 %
% Terphenyl-d14	74		%	1	10/31/18	WB	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	10/30/18	HM	SW8270D (SIM)
2-Methylnaphthalene	ND	0.99	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.20	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	10/30/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)

Ver 1

Project ID: ROCKVILLE MGP
Client ID: EQ BLANK

Phoenix I.D.: CB82851

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	ug/L	1	10/30/18	HM	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Hexachloroethane	ND	0.50	ug/L	1	10/30/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Naphthalene	0.14	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pentachlorophenol	ND	0.79	ug/L	1	10/30/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pyridine	ND	0.50	ug/L	1	10/30/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	90		%	1	10/30/18	HM	15 - 110 %
% 2-Fluorobiphenyl	62		%	1	10/30/18	HM	30 - 130 %
% 2-Fluorophenol	46		%	1	10/30/18	HM	15 - 110 %
% Nitrobenzene-d5	63		%	1	10/30/18	HM	30 - 130 %
% Phenol-d5	54		%	1	10/30/18	HM	15 - 110 %
% Terphenyl-d14	82		%	1	10/30/18	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 05, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/24/18	
Location Code:	TIGHE-DAS	Received by:	CP	10/26/18	12:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB82836
Phoenix ID: CB82852

Project ID: ROCKVILLE MGP
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/30/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/30/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	10/30/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/30/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/30/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/30/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: TRIP BLANK

Phoenix I.D.: CB82852

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	10/30/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/30/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	10/30/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/30/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/30/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/30/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/30/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/30/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/30/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/30/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/30/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/30/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/30/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	10/30/18	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	10/30/18	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	10/30/18	MH	70 - 130 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: TRIP BLANK

Phoenix I.D.: CB82852

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	89		%	1	10/30/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

November 05, 2018

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 453882 (mg/L), QC Sample No: CB83200 (CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	89.0			85.2			80 - 120	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 453757 (mg/L), QC Sample No: CB82080 (CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851)													
ICP Metals - Aqueous													
Antimony	BRL	0.005	<0.005	<0.005	NC	107			103			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.8			95.9			75 - 125	20
Barium	BRL	0.002	0.034	0.033	3.00	103			100			75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	97.9			95.9			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	98.1			94.6			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	99.9			97.1			75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	102			98.7			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	100			97.0			75 - 125	20
Nickel	BRL	0.001	<0.001	<0.001	NC	99.3			95.7			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	94.5			91.4			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	96.5			95.0			75 - 125	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	101			98.8			75 - 125	20
Zinc	BRL	0.004	0.008	0.007	NC	96.5			93.2			75 - 125	20
QA/QC Batch 453844 (mg/L), QC Sample No: CB82087 5X (CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851)													
ICP MS Metals - Aqueous													
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	105			103			75 - 125	20

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

November 05, 2018

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 454189 (mg/L), QC Sample No: CB82836 (CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850)													
Total Cyanide	BRL	0.010	0.013	<0.010	NC	96.0			105			90 - 110	20
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 454364 (mg/L), QC Sample No: CB82851 (CB82851)													
Total Cyanide	BRL	0.010	<0.010	<0.010	NC	95.7			106			90 - 110	20
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													

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QA/QC Report

November 05, 2018

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 453741 (mg/L), QC Sample No: CB82836 (CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851)											
TPH by GC (Extractable Products) - Ground Water											
Ext. Petroleum H.C. (C9-C36)	ND	0.10	106	99	6.8				60 - 120	30	
% n-Pentacosane	69	%	74	67	9.9				50 - 150	20	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 454143 (ug/L), QC Sample No: CB82838 (CB82838)											
Semivolatiles - Ground Water											
1,2,4-Trichlorobenzene	ND	3.5	58	61	5.0				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	53	55	3.7				30 - 130	20	
1,2-Diphenylhydrazine	ND	1.6	79	81	2.5				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	51	56	9.3				30 - 130	20	
1,4-Dichlorobenzene	ND	1.0	52	57	9.2				30 - 130	20	
2,4,5-Trichlorophenol	ND	1.0	82	88	7.1				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	78	83	6.2				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	67	69	2.9				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	71	67	5.8				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	91	88	3.4				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	96	101	5.1				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	89	94	5.5				30 - 130	20	
2-Chloronaphthalene	ND	3.5	70	74	5.6				30 - 130	20	
2-Chlorophenol	ND	1.0	49	54	9.7				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	58	59	1.7				30 - 130	20	
2-Nitroaniline	ND	3.5	108	116	7.1				30 - 130	20	
2-Nitrophenol	ND	1.0	66	65	1.5				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	63	64	1.6				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	66	87	27.5				30 - 130	20	r
3-Nitroaniline	ND	5.0	100	109	8.6				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0	97	102	5.0				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	86	89	3.4				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	84	86	2.4				30 - 130	20	
4-Chloroaniline	ND	3.5	75	81	7.7				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	1.0	80	83	3.7				30 - 130	20	
4-Nitroaniline	ND	5.0	88	90	2.2				30 - 130	20	
4-Nitrophenol	ND	1.0	90	100	10.5				15 - 130	20	
Acetophenone	ND	3.5	62	61	1.6				30 - 130	20	
Aniline	ND	3.5	49	58	16.8				30 - 130	20	
Benzidine	ND	4.5	<10	99	NC				30 - 130	20	l
Benzoic acid	ND	10	61	34	56.8				30 - 130	20	r
Benzyl butyl phthalate	ND	1.5	92	94	2.2				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.5	69	71	2.9				30 - 130	20	

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bis(2-chloroethyl)ether	ND	1.0	52	53	1.9				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	1.0	49	48	2.1				30 - 130	20	
Carbazole	ND	5.0	87	91	4.5				30 - 130	20	
Diethyl phthalate	ND	1.5	88	91	3.4				30 - 130	20	
Dimethylphthalate	ND	1.5	86	90	4.5				30 - 130	20	
Di-n-butylphthalate	ND	1.5	93	96	3.2				30 - 130	20	
Di-n-octylphthalate	ND	1.5	99	101	2.0				30 - 130	20	
Isophorone	ND	3.5	70	71	1.4				30 - 130	20	
N-Nitrosodimethylamine	ND	1.0	51	55	7.5				30 - 130	20	
N-Nitrosodi-n-propylamine	ND	3.5	72	71	1.4				30 - 130	20	
N-Nitrosodiphenylamine	ND	3.5	79	82	3.7				30 - 130	20	
Phenol	ND	1.0	45	47	4.3				15 - 130	20	
% 2,4,6-Tribromophenol	83	%	91	95	4.3				15 - 110	20	
% 2-Fluorobiphenyl	58	%	61	64	4.8				30 - 130	20	
% 2-Fluorophenol	44	%	38	42	10.0				15 - 110	20	
% Nitrobenzene-d5	54	%	54	53	1.9				30 - 130	20	
% Phenol-d5	53	%	42	43	2.4				15 - 110	20	
% Terphenyl-d14	82	%	70	72	2.8				30 - 130	20	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 453740 (ug/L), QC Sample No: CB83214 (CB82836, CB82837, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	64	69	7.5				30 - 130	20	
1,2,4-Trichlorobenzene	ND	3.5	55	53	3.7				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	45	35	25.0				30 - 130	20	r
1,2-Diphenylhydrazine	ND	1.6	71	79	10.7				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	45	32	33.8				30 - 130	20	r
1,4-Dichlorobenzene	ND	1.0	46	34	30.0				30 - 130	20	r
2,4,5-Trichlorophenol	ND	1.0	78	86	9.8				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	75	83	10.1				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	60	64	6.5				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	67	72	7.2				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	15	52	110.4				30 - 130	20	l,r
2,4-Dinitrotoluene	ND	3.5	89	100	11.6				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	81	92	12.7				30 - 130	20	
2-Chloronaphthalene	ND	3.5	69	73	5.6				30 - 130	20	
2-Chlorophenol	ND	1.0	46	39	16.5				30 - 130	20	
2-Methylnaphthalene	ND	3.5	60	64	6.5				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	52	52	0.0				30 - 130	20	
2-Nitroaniline	ND	3.5	112	128	13.3				30 - 130	20	
2-Nitrophenol	ND	1.0	55	56	1.8				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	55	55	0.0				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	53	70	27.6				30 - 130	20	r
3-Nitroaniline	ND	5.0	79	94	17.3				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0	33	69	70.6				30 - 130	20	r
4-Bromophenyl phenyl ether	ND	3.5	83	92	10.3				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	73	83	12.8				30 - 130	20	
4-Chloroaniline	ND	3.5	57	76	28.6				30 - 130	20	r
4-Chlorophenyl phenyl ether	ND	1.0	77	85	9.9				30 - 130	20	
4-Nitroaniline	ND	5.0	73	83	12.8				30 - 130	20	

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Nitrophenol	ND	1.0	80	90	11.8				15 - 130	20	
Acenaphthene	ND	1.5	71	77	8.1				30 - 130	20	
Acenaphthylene	ND	3.5	65	72	10.2				30 - 130	20	
Acetophenone	ND	3.5	58	58	0.0				30 - 130	20	
Aniline	ND	3.5	76	81	6.4				30 - 130	20	
Anthracene	ND	1.5	75	83	10.1				30 - 130	20	
Benz(a)anthracene	ND	1.5	79	90	13.0				30 - 130	20	
Benzidine	ND	4.5	49	98	66.7				30 - 130	20	r
Benzo(a)pyrene	ND	1.5	71	80	11.9				30 - 130	20	
Benzo(b)fluoranthene	ND	1.5	79	89	11.9				30 - 130	20	
Benzo(ghi)perylene	ND	1.5	69	86	21.9				30 - 130	20	r
Benzo(k)fluoranthene	ND	1.5	79	80	1.3				30 - 130	20	
Benzoic acid	ND	10	55	66	18.2				30 - 130	20	
Benzyl butyl phthalate	ND	1.5	83	91	9.2				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.5	60	62	3.3				30 - 130	20	
Bis(2-chloroethyl)ether	ND	1.0	45	37	19.5				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	1.0	38	34	11.1				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	79	90	13.0				30 - 130	20	
Carbazole	ND	5.0	81	91	11.6				30 - 130	20	
Chrysene	ND	1.5	78	87	10.9				30 - 130	20	
Dibenz(a,h)anthracene	ND	1.5	77	95	20.9				30 - 130	20	r
Dibenzofuran	ND	3.5	73	80	9.2				30 - 130	20	
Diethyl phthalate	ND	1.5	87	95	8.8				30 - 130	20	
Dimethylphthalate	ND	1.5	84	92	9.1				30 - 130	20	
Di-n-butylphthalate	ND	1.5	89	99	10.6				30 - 130	20	
Di-n-octylphthalate	ND	1.5	82	93	12.6				30 - 130	20	
Fluoranthene	ND	1.5	83	93	11.4				30 - 130	20	
Fluorene	ND	1.5	77	83	7.5				30 - 130	20	
Hexachlorobenzene	ND	3.5	83	91	9.2				30 - 130	20	
Hexachlorobutadiene	ND	3.5	59	55	7.0				30 - 130	20	
Hexachlorocyclopentadiene	ND	3.5	18	24	28.6				30 - 130	20	l,r
Hexachloroethane	ND	3.5	44	32	31.6				30 - 130	20	r
Indeno(1,2,3-cd)pyrene	ND	3.5	73	89	19.8				30 - 130	20	
Isophorone	ND	3.5	56	63	11.8				30 - 130	20	
Naphthalene	ND	1.5	55	54	1.8				30 - 130	20	
Nitrobenzene	ND	3.5	55	54	1.8				30 - 130	20	
N-Nitrosodimethylamine	ND	1.0	31	23	29.6				30 - 130	20	l,r
N-Nitrosodi-n-propylamine	ND	3.5	60	63	4.9				30 - 130	20	
N-Nitrosodiphenylamine	ND	3.5	72	81	11.8				30 - 130	20	
Pentachloronitrobenzene	ND	5.0	83	94	12.4				30 - 130	20	
Pentachlorophenol	ND	3.5	92	105	13.2				30 - 130	20	
Phenanthrene	ND	1.5	77	84	8.7				30 - 130	20	
Phenol	ND	1.0	42	38	10.0				15 - 130	20	
Pyrene	ND	1.5	82	90	9.3				30 - 130	20	
Pyridine	ND	5.0	18	17	5.7				30 - 130	20	l
% 2,4,6-Tribromophenol	71	%	75	86	13.7				15 - 110	20	
% 2-Fluorobiphenyl	59	%	66	69	4.4				30 - 130	20	
% 2-Fluorophenol	30	%	34	23	38.6				15 - 110	20	r
% Nitrobenzene-d5	45	%	51	50	2.0				30 - 130	20	
% Phenol-d5	11	%	39	34	13.7				15 - 110	20	s
% Terphenyl-d14	80	%	76	86	12.3				30 - 130	20	

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Comment:											
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)											
QA/QC Batch 454143 (ug/L), QC Sample No: CB82838 (CB82838)											
Semivolatiles (SIM) - Ground Water											
1,2,4,5-Tetrachlorobenzene	ND	0.50	54	52	3.8				30 - 130	20	
2-Methylnaphthalene	ND	0.10	56	43	26.3				30 - 130	20	r
Acenaphthene	ND	0.02	65	65	0.0				30 - 130	20	
Acenaphthylene	ND	0.02	58	58	0.0				30 - 130	20	
Anthracene	ND	0.02	72	71	1.4				30 - 130	20	
Benz(a)anthracene	ND	0.02	76	73	4.0				30 - 130	20	
Benzo(a)pyrene	ND	0.02	76	73	4.0				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	81	77	5.1				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	70	67	4.4				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	75	73	2.7				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	0.10	104	99	4.9				30 - 130	20	
Chrysene	ND	0.02	76	72	5.4				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	83	78	6.2				30 - 130	20	
Dibenzofuran	ND	0.05	64	62	3.2				30 - 130	20	
Fluoranthene	ND	0.02	71	69	2.9				30 - 130	20	
Fluorene	ND	0.02	67	66	1.5				30 - 130	20	
Hexachlorobenzene	ND	0.02	73	72	1.4				30 - 130	20	
Hexachlorobutadiene	ND	0.05	42	43	2.4				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.05	28	29	3.5				30 - 130	20	l
Hexachloroethane	ND	0.05	35	35	0.0				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	78	74	5.3				30 - 130	20	
Naphthalene	ND	0.10	50	46	8.3				30 - 130	20	
Nitrobenzene	ND	0.05	48	46	4.3				30 - 130	20	
Pentachloronitrobenzene	ND	0.10	85	83	2.4				30 - 130	20	
Pentachlorophenol	ND	0.20	122	120	1.7				30 - 130	20	
Phenanthrene	ND	0.02	69	67	2.9				30 - 130	20	
Pyrene	ND	0.02	74	70	5.6				30 - 130	20	
Pyridine	ND	0.50	33	42	24.0				30 - 130	20	r
% 2,4,6-Tribromophenol	83	%	83	84	1.2				15 - 110	20	
% 2-Fluorobiphenyl	53	%	56	55	1.8				30 - 130	20	
% 2-Fluorophenol	51	%	34	34	0.0				15 - 110	20	
% Nitrobenzene-d5	56	%	48	48	0.0				30 - 130	20	
% Phenol-d5	55	%	38	38	0.0				15 - 110	20	
% Terphenyl-d14	74	%	70	66	5.9				30 - 130	20	
Comment:											
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)											
QA/QC Batch 453740 (ug/L), QC Sample No: CB83214 (CB82836, CB82837, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851)											
Semivolatiles (SIM) - Ground Water											
1,2,4,5-Tetrachlorobenzene	ND	0.50	52	56	7.4				30 - 130	20	
2-Methylnaphthalene	ND	0.10	53	55	3.7				30 - 130	20	
Acenaphthene	ND	0.02	65	70	7.4				30 - 130	20	
Acenaphthylene	ND	0.02	57	62	8.4				30 - 130	20	
Anthracene	ND	0.02	69	76	9.7				30 - 130	20	
Benz(a)anthracene	ND	0.02	69	77	11.0				30 - 130	20	
Benzo(a)pyrene	ND	0.02	69	78	12.2				30 - 130	20	

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzo(b)fluoranthene	ND	0.02	74	82	10.3				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	67	75	11.3				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	74	85	13.8				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	0.10	87	96	9.8				30 - 130	20	
Chrysene	ND	0.02	72	81	11.8				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	78	88	12.0				30 - 130	20	
Dibenzofuran	ND	0.05	61	67	9.4				30 - 130	20	
Fluoranthene	ND	0.02	68	75	9.8				30 - 130	20	
Fluorene	ND	0.02	66	72	8.7				30 - 130	20	
Hexachlorobenzene	ND	0.02	67	77	13.9				30 - 130	20	
Hexachlorobutadiene	ND	0.05	46	41	11.5				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.05	30	31	3.3				30 - 130	20	
Hexachloroethane	ND	0.05	35	27	25.8				30 - 130	20	l,r
Indeno(1,2,3-cd)pyrene	ND	0.02	72	81	11.8				30 - 130	20	
Naphthalene	ND	0.10	49	50	2.0				30 - 130	20	
Nitrobenzene	ND	0.05	52	50	3.9				30 - 130	20	
Pentachloronitrobenzene	ND	0.10	76	81	6.4				30 - 130	20	
Pentachlorophenol	ND	0.20	97	99	2.0				30 - 130	20	
Phenanthrene	ND	0.02	67	74	9.9				30 - 130	20	
Pyrene	ND	0.02	69	78	12.2				30 - 130	20	
Pyridine	ND	0.50	30	29	3.4				30 - 130	20	l
% 2,4,6-Tribromophenol	80	%	77	85	9.9				15 - 110	20	
% 2-Fluorobiphenyl	59	%	55	59	7.0				30 - 130	20	
% 2-Fluorophenol	41	%	35	25	33.3				15 - 110	20	r
% Nitrobenzene-d5	53	%	51	49	4.0				30 - 130	20	
% Phenol-d5	17	%	42	36	15.4				15 - 110	20	
% Terphenyl-d14	77	%	63	73	14.7				30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 454275 (ug/L), QC Sample No: CB82540 (CB82836, CB82837, CB82838, CB82839, CB82852)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	91	106	15.2				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	84	102	19.4				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	91	115	23.3				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	80	103	25.1				70 - 130	30	
1,1-Dichloroethane	ND	1.0	87	103	16.8				70 - 130	30	
1,1-Dichloroethene	ND	1.0	88	107	19.5				70 - 130	30	
1,1-Dichloropropene	ND	1.0	84	101	18.4				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	82	111	30.1				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	89	108	19.3				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	89	109	20.2				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	97	108	10.7				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	95	117	20.8				70 - 130	30	
1,2-Dibromoethane	ND	1.0	86	106	20.8				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	92	109	16.9				70 - 130	30	
1,2-Dichloroethane	ND	1.0	83	104	22.5				70 - 130	30	
1,2-Dichloropropane	ND	1.0	84	104	21.3				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	95	105	10.0				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	94	107	12.9				70 - 130	30	
1,3-Dichloropropane	ND	1.0	86	105	19.9				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	93	107	14.0				70 - 130	30	

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2,2-Dichloropropane	ND	1.0	83	101	19.6				70 - 130	30
2-Chlorotoluene	ND	1.0	98	109	10.6				70 - 130	30
2-Hexanone	ND	5.0	80	106	28.0				70 - 130	30
2-Isopropyltoluene	ND	1.0	98	109	10.6				70 - 130	30
4-Chlorotoluene	ND	1.0	95	105	10.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	75	101	29.5				70 - 130	30
Acetone	ND	5.0	79	95	18.4				70 - 130	30
Acrylonitrile	ND	5.0	78	101	25.7				70 - 130	30
Benzene	ND	0.70	87	103	16.8				70 - 130	30
Bromobenzene	ND	1.0	95	108	12.8				70 - 130	30
Bromochloromethane	ND	1.0	82	101	20.8				70 - 130	30
Bromodichloromethane	ND	0.50	85	107	22.9				70 - 130	30
Bromoform	ND	1.0	84	107	24.1				70 - 130	30
Bromomethane	ND	1.0	80	100	22.2				70 - 130	30
Carbon Disulfide	ND	1.0	85	100	16.2				70 - 130	30
Carbon tetrachloride	ND	1.0	82	103	22.7				70 - 130	30
Chlorobenzene	ND	1.0	92	105	13.2				70 - 130	30
Chloroethane	ND	1.0	85	97	13.2				70 - 130	30
Chloroform	ND	1.0	83	101	19.6				70 - 130	30
Chloromethane	ND	1.0	77	91	16.7				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	87	103	16.8				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	81	103	23.9				70 - 130	30
Dibromochloromethane	ND	0.50	92	114	21.4				70 - 130	30
Dibromomethane	ND	1.0	79	102	25.4				70 - 130	30
Dichlorodifluoromethane	ND	1.0	75	86	13.7				70 - 130	30
Ethylbenzene	ND	1.0	93	105	12.1				70 - 130	30
Hexachlorobutadiene	ND	0.40	105	111	5.6				70 - 130	30
Isopropylbenzene	ND	1.0	95	106	10.9				70 - 130	30
m&p-Xylene	ND	1.0	93	104	11.2				70 - 130	30
Methyl ethyl ketone	ND	5.0	80	106	28.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	77	104	29.8				70 - 130	30
Methylene chloride	ND	1.0	84	103	20.3				70 - 130	30
Naphthalene	ND	1.0	89	116	26.3				70 - 130	30
n-Butylbenzene	ND	1.0	95	108	12.8				70 - 130	30
n-Propylbenzene	ND	1.0	96	107	10.8				70 - 130	30
o-Xylene	ND	1.0	94	108	13.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	95	107	11.9				70 - 130	30
sec-Butylbenzene	ND	1.0	94	109	14.8				70 - 130	30
Styrene	ND	1.0	89	103	14.6				70 - 130	30
tert-Butylbenzene	ND	1.0	93	105	12.1				70 - 130	30
Tetrachloroethene	ND	1.0	81	101	22.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	69	93	29.6				70 - 130	30
Toluene	ND	1.0	88	104	16.7				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	88	102	14.7				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	77	99	25.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	89	112	22.9				70 - 130	30
Trichloroethene	ND	1.0	86	102	17.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	82	97	16.8				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	83	101	19.6				70 - 130	30
Vinyl chloride	ND	1.0	84	103	20.3				70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	98	99	1.0				70 - 130	30
% Bromofluorobenzene	93	%	91	95	4.3				70 - 130	30
% Dibromofluoromethane	98	%	86	98	13.0				70 - 130	30

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Toluene-d8	89	%	96	98	2.1				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 454467 (ug/L), QC Sample No: CB83044 (CB82839 (10X) , CB82840, CB82841 (10X, 100X) , CB82842, CB82843, CB82844, CB82845)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	97	81	18.0				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	91	73	22.0				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	103	84	20.3				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	93	72	25.5				70 - 130	30	
1,1-Dichloroethane	ND	1.0	92	79	15.2				70 - 130	30	
1,1-Dichloroethene	ND	1.0	97	79	20.5				70 - 130	30	
1,1-Dichloropropene	ND	1.0	92	72	24.4				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	93	70	28.2				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	99	83	17.6				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	98	77	24.0				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	98	83	16.6				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	101	83	19.6				70 - 130	30	
1,2-Dibromoethane	ND	1.0	97	81	18.0				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	99	83	17.6				70 - 130	30	
1,2-Dichloroethane	ND	1.0	98	74	27.9				70 - 130	30	
1,2-Dichloropropane	ND	1.0	93	76	20.1				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	96	83	14.5				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	98	84	15.4				70 - 130	30	
1,3-Dichloropropane	ND	1.0	96	79	19.4				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	99	84	16.4				70 - 130	30	
2,2-Dichloropropane	ND	1.0	93	76	20.1				70 - 130	30	
2-Chlorotoluene	ND	1.0	99	85	15.2				70 - 130	30	
2-Hexanone	ND	5.0	95	70	30.3				70 - 130	30	
2-Isopropyltoluene	ND	1.0	100	85	16.2				70 - 130	30	
4-Chlorotoluene	ND	1.0	97	84	14.4				70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	91	67	30.4				70 - 130	30	I
Acetone	ND	5.0	75	62	19.0				70 - 130	30	I
Acrylonitrile	ND	5.0	89	71	22.5				70 - 130	30	
Benzene	ND	0.70	90	77	15.6				70 - 130	30	
Bromobenzene	ND	1.0	100	85	16.2				70 - 130	30	
Bromochloromethane	ND	1.0	90	77	15.6				70 - 130	30	
Bromodichloromethane	ND	0.50	94	76	21.2				70 - 130	30	
Bromoform	ND	1.0	93	75	21.4				70 - 130	30	
Bromomethane	ND	1.0	83	71	15.6				70 - 130	30	
Carbon Disulfide	ND	1.0	89	76	15.8				70 - 130	30	
Carbon tetrachloride	ND	1.0	91	71	24.7				70 - 130	30	
Chlorobenzene	ND	1.0	97	82	16.8				70 - 130	30	
Chloroethane	ND	1.0	89	75	17.1				70 - 130	30	
Chloroform	ND	1.0	90	76	16.9				70 - 130	30	
Chloromethane	ND	1.0	75	62	19.0				70 - 130	30	I
cis-1,2-Dichloroethene	ND	1.0	93	80	15.0				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	92	74	21.7				70 - 130	30	
Dibromochloromethane	ND	0.50	101	84	18.4				70 - 130	30	
Dibromomethane	ND	1.0	91	73	22.0				70 - 130	30	
Dichlorodifluoromethane	ND	1.0	76	55	32.1				70 - 130	30	I,r

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Ethylbenzene	ND	1.0	95	80	17.1				70 - 130	30
Hexachlorobutadiene	ND	0.40	105	96	9.0				70 - 130	30
Isopropylbenzene	ND	1.0	98	83	16.6				70 - 130	30
m&p-Xylene	ND	1.0	95	80	17.1				70 - 130	30
Methyl ethyl ketone	ND	5.0	94	70	29.3				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	89	71	22.5				70 - 130	30
Methylene chloride	ND	1.0	93	79	16.3				70 - 130	30
Naphthalene	ND	1.0	103	81	23.9				70 - 130	30
n-Butylbenzene	ND	1.0	101	84	18.4				70 - 130	30
n-Propylbenzene	ND	1.0	99	82	18.8				70 - 130	30
o-Xylene	ND	1.0	97	81	18.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	98	82	17.8				70 - 130	30
sec-Butylbenzene	ND	1.0	101	82	20.8				70 - 130	30
Styrene	ND	1.0	95	81	15.9				70 - 130	30
tert-Butylbenzene	ND	1.0	97	80	19.2				70 - 130	30
Tetrachloroethene	ND	1.0	91	71	24.7				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	82	64	24.7				70 - 130	30
Toluene	ND	1.0	92	76	19.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	94	79	17.3				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	88	72	20.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	96	76	23.3				70 - 130	30
Trichloroethene	ND	1.0	91	76	18.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	91	70	26.1				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	95	71	28.9				70 - 130	30
Vinyl chloride	ND	1.0	92	74	21.7				70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	101	98	3.0				70 - 130	30
% Bromofluorobenzene	91	%	94	91	3.2				70 - 130	30
% Dibromofluoromethane	96	%	95	92	3.2				70 - 130	30
% Toluene-d8	88	%	97	96	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 454231 (ug/L), QC Sample No: CB83890 (CB82846, CB82847, CB82848, CB82849, CB82850 (20X))

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	98	104	5.9				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	103	104	1.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	101	103	2.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	99	98	1.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	102	101	1.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	102	105	2.9				70 - 130	30
1,1-Dichloropropene	ND	1.0	103	103	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	102	101	1.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	98	98	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	96	98	2.1				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	101	101	0.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	96	105	9.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	98	103	5.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	98	102	4.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	97	98	1.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	97	99	2.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	100	101	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	100	101	1.0				70 - 130	30

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,3-Dichloropropane	ND	1.0	96	100	4.1				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	97	98	1.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	100	100	0.0				70 - 130	30
2-Chlorotoluene	ND	1.0	100	97	3.0				70 - 130	30
2-Hexanone	ND	5.0	96	99	3.1				70 - 130	30
2-Isopropyltoluene	ND	1.0	105	103	1.9				70 - 130	30
4-Chlorotoluene	ND	1.0	99	100	1.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	101	102	1.0				70 - 130	30
Acetone	ND	5.0	101	89	12.6				70 - 130	30
Acrylonitrile	ND	5.0	94	93	1.1				70 - 130	30
Benzene	ND	0.70	98	99	1.0				70 - 130	30
Bromobenzene	ND	1.0	98	98	0.0				70 - 130	30
Bromochloromethane	ND	1.0	96	97	1.0				70 - 130	30
Bromodichloromethane	ND	0.50	99	103	4.0				70 - 130	30
Bromoform	ND	1.0	99	101	2.0				70 - 130	30
Bromomethane	ND	1.0	81	90	10.5				70 - 130	30
Carbon Disulfide	ND	1.0	98	101	3.0				70 - 130	30
Carbon tetrachloride	ND	1.0	103	103	0.0				70 - 130	30
Chlorobenzene	ND	1.0	97	99	2.0				70 - 130	30
Chloroethane	ND	1.0	91	98	7.4				70 - 130	30
Chloroform	ND	1.0	97	99	2.0				70 - 130	30
Chloromethane	ND	1.0	80	78	2.5				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	99	100	1.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	96	100	4.1				70 - 130	30
Dibromochloromethane	ND	0.50	107	108	0.9				70 - 130	30
Dibromomethane	ND	1.0	98	100	2.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	89	87	2.3				70 - 130	30
Ethylbenzene	ND	1.0	100	101	1.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	99	101	2.0				70 - 130	30
Isopropylbenzene	ND	1.0	102	103	1.0				70 - 130	30
m&p-Xylene	ND	1.0	99	103	4.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	103	102	1.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	100	2.0				70 - 130	30
Methylene chloride	ND	1.0	99	101	2.0				70 - 130	30
Naphthalene	ND	1.0	103	104	1.0				70 - 130	30
n-Butylbenzene	ND	1.0	103	103	0.0				70 - 130	30
n-Propylbenzene	ND	1.0	101	104	2.9				70 - 130	30
o-Xylene	ND	1.0	100	102	2.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	104	104	0.0				70 - 130	30
sec-Butylbenzene	ND	1.0	109	109	0.0				70 - 130	30
Styrene	ND	1.0	104	103	1.0				70 - 130	30
tert-Butylbenzene	ND	1.0	106	103	2.9				70 - 130	30
Tetrachloroethene	ND	1.0	104	109	4.7				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	95	94	1.1				70 - 130	30
Toluene	ND	1.0	102	101	1.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	103	102	1.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	95	98	3.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	104	100	3.9				70 - 130	30
Trichloroethene	ND	1.0	98	102	4.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	98	97	1.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	102	106	3.8				70 - 130	30
Vinyl chloride	ND	1.0	101	100	1.0				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	102	99	3.0				70 - 130	30

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Bromofluorobenzene	88	%	97	101	4.0				70 - 130	30
% Dibromofluoromethane	102	%	102	103	1.0				70 - 130	30
% Toluene-d8	97	%	103	103	0.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 454436 (ug/L), QC Sample No: CB84412 (CB82850 (200X) , CB82851)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	103	103	0.0				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	99	103	4.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	102	98	4.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	97	97	0.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	102	101	1.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	98	98	0.0				70 - 130	30
1,1-Dichloropropene	ND	1.0	101	101	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	100	101	1.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	94	98	4.2				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	95	99	4.1				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	97	98	1.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	100	98	2.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	101	96	5.1				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	98	99	1.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	97	97	0.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	95	95	0.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	99	103	4.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	99	101	2.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	98	94	4.2				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	96	98	2.1				70 - 130	30
2,2-Dichloropropane	ND	1.0	104	102	1.9				70 - 130	30
2-Chlorotoluene	ND	1.0	97	97	0.0				70 - 130	30
2-Hexanone	ND	5.0	96	90	6.5				70 - 130	30
2-Isopropyltoluene	ND	1.0	99	103	4.0				70 - 130	30
4-Chlorotoluene	ND	1.0	95	100	5.1				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	95	94	1.1				70 - 130	30
Acetone	ND	5.0	93	89	4.4				70 - 130	30
Acrylonitrile	ND	5.0	95	91	4.3				70 - 130	30
Benzene	ND	0.70	94	96	2.1				70 - 130	30
Bromobenzene	ND	1.0	97	99	2.0				70 - 130	30
Bromochloromethane	ND	1.0	98	95	3.1				70 - 130	30
Bromodichloromethane	ND	0.50	98	100	2.0				70 - 130	30
Bromoform	ND	1.0	104	103	1.0				70 - 130	30
Bromomethane	ND	1.0	89	90	1.1				70 - 130	30
Carbon Disulfide	ND	1.0	97	95	2.1				70 - 130	30
Carbon tetrachloride	ND	1.0	101	102	1.0				70 - 130	30
Chlorobenzene	ND	1.0	96	98	2.1				70 - 130	30
Chloroethane	ND	1.0	88	89	1.1				70 - 130	30
Chloroform	ND	1.0	96	97	1.0				70 - 130	30
Chloromethane	ND	1.0	74	74	0.0				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	100	96	4.1				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	98	98	0.0				70 - 130	30
Dibromochloromethane	ND	0.50	110	104	5.6				70 - 130	30
Dibromomethane	ND	1.0	99	95	4.1				70 - 130	30

QA/QC Data

SDG I.D.: GCB82836

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dichlorodifluoromethane	ND	1.0	75	73	2.7				70 - 130	30
Ethylbenzene	ND	1.0	102	99	3.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	96	99	3.1				70 - 130	30
Isopropylbenzene	ND	1.0	101	103	2.0				70 - 130	30
m&p-Xylene	ND	1.0	102	100	2.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	98	95	3.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	100	99	1.0				70 - 130	30
Methylene chloride	ND	1.0	100	96	4.1				70 - 130	30
Naphthalene	ND	1.0	101	103	2.0				70 - 130	30
n-Butylbenzene	ND	1.0	100	102	2.0				70 - 130	30
n-Propylbenzene	ND	1.0	96	101	5.1				70 - 130	30
o-Xylene	ND	1.0	103	101	2.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	102	103	1.0				70 - 130	30
sec-Butylbenzene	ND	1.0	106	108	1.9				70 - 130	30
Styrene	ND	1.0	105	101	3.9				70 - 130	30
tert-Butylbenzene	ND	1.0	97	103	6.0				70 - 130	30
Tetrachloroethene	ND	1.0	102	98	4.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	89	90	1.1				70 - 130	30
Toluene	ND	1.0	96	99	3.1				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	101	96	5.1				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	96	97	1.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	97	99	2.0				70 - 130	30
Trichloroethene	ND	1.0	96	97	1.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	95	92	3.2				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	102	100	2.0				70 - 130	30
Vinyl chloride	ND	1.0	95	95	0.0				70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	99	102	3.0				70 - 130	30
% Bromofluorobenzene	90	%	103	97	6.0				70 - 130	30
% Dibromofluoromethane	97	%	103	95	8.1				70 - 130	30
% Toluene-d8	95	%	101	99	2.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference



Phyllis Shiller, Laboratory Director
November 05, 2018

Monday, November 05, 2018
Criteria: CT: GWP, SWP
State: CT

Sample Criteria Exceedances Report

GCB82836 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB82836	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82836	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82836	$8270-CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	0.37	0.05	0.3	0.3	ug/L
CB82836	$8270-CTSIMR	Dibenzofuran	CT / RSR SWPC (ug/l) / Semivolatiles	0.20	0.05	0.077	0.077	ug/L
CB82837	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82837	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82837	$8270-CTSIMR	Dibenzofuran	CT / RSR SWPC (ug/l) / Semivolatiles	0.18	0.05	0.077	0.077	ug/L
CB82838	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82838	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82838	$8270-CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.12	0.05	0.077	0.077	ug/L
CB82839	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82839	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82839	$8270-CTSIMR	Benz(a)anthracene	CT / RSR GWPC (ug/l) / Semivolatiles	0.13	0.05	0.06	0.06	ug/L
CB82839	$8270-CTSIMR	Dibenzofuran	CT / RSR SWPC (ug/l) / Semivolatiles	0.39	0.05	0.077	0.077	ug/L
CB82839	$8270-CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	1.2	0.05	0.077	0.077	ug/L
CB82839	$8270-CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	3.2	0.05	0.3	0.3	ug/L
CB82839	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	0.55	0.069	0.25	0.25	mg/L
CB82839	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	0.55	0.069	0.5	0.5	mg/L
CB82839	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	0.55	0.069	0.25	0.25	mg/L
CB82840	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82840	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82841	$8260GWR	Total Xylenes	CT / RSR GWPC (ug/l) / Volatiles	630	10	530	530	ug/L
CB82841	$8260GWR	Total Xylenes	CT / RSR SWPC (ug/l) / APS Organics	630	10	270	270	ug/L
CB82841	$8260GWR	Tetrahydrofuran (THF)	CT / RSR GWPC (ug/l) / APS Organics	ND	25	4	4	ug/L
CB82841	$8260GWR	Bromodichloromethane	CT / RSR GWPC (ug/l) / APS Organics	ND	2.5	1	1	ug/L
CB82841	$8260GWR	Isopropylbenzene	CT / RSR GWPC (ug/l) / APS Organics	26	10	25	25	ug/L
CB82841	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	5.0	0.2	0.2	ug/L
CB82841	$8260GWR	Naphthalene	CT / RSR GWPC (ug/l) / Semivolatiles	2900	100	280	280	ug/L
CB82841	$8260GWR	1,1,2,2-Tetrachloroethane	CT / RSR GWPC (ug/l) / Volatiles	ND	2.5	0.5	0.5	ug/L
CB82841	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	2.5	0.05	0.05	ug/L
CB82841	$8260GWR	1,2-Dichloroethane	CT / RSR GWPC (ug/l) / Volatiles	ND	2.5	1	1	ug/L
CB82841	$8260GWR	Acrylonitrile	CT / RSR GWPC (ug/l) / Volatiles	ND	2.5	0.5	0.5	ug/L
CB82841	$8260GWR	Benzene	CT / RSR GWPC (ug/l) / Volatiles	680	70	1	1	ug/L
CB82841	$8260GWR	Dibromochloromethane	CT / RSR GWPC (ug/l) / Volatiles	ND	2.5	0.5	0.5	ug/L
CB82841	$8260GWR	Methylene chloride	CT / RSR GWPC (ug/l) / Volatiles	ND	10	5	5	ug/L
CB82841	$8260GWR	Vinyl chloride	CT / RSR GWPC (ug/l) / Volatiles	ND	2.5	2	2	ug/L
CB82841	$8260GWR	1,1,1,2-Tetrachloroethane	CT / RSR GWPC (ug/l) / Volatiles	ND	2.5	1	1	ug/L
CB82841	$8260GWR	Naphthalene	CT / RSR SWPC (ug/l) / APS Organics	2900	100	210	210	ug/L

Monday, November 05, 2018
Criteria: CT: GWP, SWP
State: CT

Sample Criteria Exceedances Report

GCB82836 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB82841	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR SWPC (ug/l) / APS Organics	ND	5.0	1.1	1.1	ug/L
CB82841	$8270-WMR	Benzo(ghi)perylene	CT / RSR GWPC (ug/l) / APS Organics	ND	0.98	0.48	0.48	ug/L
CB82841	$8270-WMR	2-Methylnaphthalene	CT / RSR GWPC (ug/l) / APS Organics	130	49	28	28	ug/L
CB82841	$8270-WMR	Indeno(1,2,3-cd)pyrene	CT / RSR GWPC (ug/l) / APS Organics	ND	0.98	0.1	0.1	ug/L
CB82841	$8270-WMR	Dibenz(a,h)anthracene	CT / RSR GWPC (ug/l) / APS Organics	ND	0.98	0.1	0.1	ug/L
CB82841	$8270-WMR	Carbazole	CT / RSR GWPC (ug/l) / APS Organics	7.0	4.9	5	5	ug/L
CB82841	$8270-WMR	Dibenzofuran	CT / RSR GWPC (ug/l) / Semivolatiles	2.9	0.98	1	1	ug/L
CB82841	$8270-WMR	Benzo(k)fluoranthene	CT / RSR GWPC (ug/l) / Semivolatiles	ND	0.98	0.5	0.5	ug/L
CB82841	$8270-WMR	Naphthalene	CT / RSR GWPC (ug/l) / Semivolatiles	1900	250	280	280	ug/L
CB82841	$8270-WMR	Benzo(a)pyrene	CT / RSR GWPC (ug/l) / Semivolatiles	ND	0.98	0.2	0.2	ug/L
CB82841	$8270-WMR	Benzo(b)fluoranthene	CT / RSR GWPC (ug/l) / Semivolatiles	ND	0.98	0.08	0.08	ug/L
CB82841	$8270-WMR	Benz(a)anthracene	CT / RSR GWPC (ug/l) / Semivolatiles	ND	0.98	0.06	0.06	ug/L
CB82841	$8270-WMR	2-Methylnaphthalene	CT / RSR SWPC (ug/l) / APS Organics	130	49	62	62	ug/L
CB82841	$8270-WMR	Phenanthrene	CT / RSR SWPC (ug/l) / APS Organics	28	4.9	14	14	ug/L
CB82841	$8270-WMR	Naphthalene	CT / RSR SWPC (ug/l) / APS Organics	1900	250	210	210	ug/L
CB82841	$8270-WMR	Indeno(1,2,3-cd)pyrene	CT / RSR SWPC (ug/l) / APS Organics	ND	0.98	0.54	0.54	ug/L
CB82841	$8270-WMR	Hexachlorocyclopentadiene	CT / RSR SWPC (ug/l) / APS Organics	ND	0.98	0.7	0.7	ug/L
CB82841	$8270-WMR	Dibenz(a,h)anthracene	CT / RSR SWPC (ug/l) / APS Organics	ND	0.98	0.3	0.3	ug/L
CB82841	$8270-WMR	Chrysene	CT / RSR SWPC (ug/l) / APS Organics	ND	0.98	0.54	0.54	ug/L
CB82841	$8270-WMR	Benzo(a)pyrene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	0.98	0.3	0.3	ug/L
CB82841	$8270-WMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	28	4.9	0.077	0.077	ug/L
CB82841	$8270-WMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	21	4.9	0.3	0.3	ug/L
CB82841	$8270-WMR	Benzo(k)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	0.98	0.3	0.3	ug/L
CB82841	$8270-WMR	Benzo(b)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	0.98	0.3	0.3	ug/L
CB82841	$8270-WMR	Benz(a)anthracene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	0.98	0.3	0.3	ug/L
CB82841	$8270-WMR	Dibenzofuran	CT / RSR SWPC (ug/l) / Semivolatiles	2.9	0.98	0.077	0.077	ug/L
CB82841	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	2.8	0.068	0.5	0.5	mg/L
CB82841	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	2.8	0.068	0.25	0.25	mg/L
CB82841	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	2.8	0.068	0.25	0.25	mg/L
CB82842	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82842	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82842	CR-WM	Chromium	CT / RSR GWPC (ug/l) / Inorganics	0.104	0.001	0.05	0.05	mg/L
CB82842	NI-WM	Nickel	CT / RSR GWPC (ug/l) / Inorganics	0.159	0.001	0.1	0.1	mg/L
CB82843	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82843	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82844	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82844	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82845	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82845	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L

Monday, November 05, 2018
Criteria: CT: GWP, SWP
State: CT

Sample Criteria Exceedances Report

GCB82836 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB82845	$8270-CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	0.55	0.05	0.3	0.3	ug/L
CB82845	$8270-CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.25	0.05	0.077	0.077	ug/L
CB82846	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82846	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82847	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82847	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82848	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82848	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82848	CR-WM	Chromium	CT / RSR GWPC (ug/l) / Inorganics	0.053	0.001	0.05	0.05	mg/L
CB82848	NI-WM	Nickel	CT / RSR GWPC (ug/l) / Inorganics	0.173	0.001	0.1	0.1	mg/L
CB82849	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82849	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82850	$8260GWR	Total Xylenes	CT / RSR GWPC (ug/l) / Volatiles	1070	20	530	530	ug/L
CB82850	$8260GWR	Total Xylenes	CT / RSR SWPC (ug/l) / APS Organics	1070	20	270	270	ug/L
CB82850	$8260GWR	Bromomethane	CT / RSR GWPC (ug/l) / APS Organics	ND	5.0	3.5	3.5	ug/L
CB82850	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	10	0.2	0.2	ug/L
CB82850	$8260GWR	Tetrahydrofuran (THF)	CT / RSR GWPC (ug/l) / APS Organics	ND	50	4	4	ug/L
CB82850	$8260GWR	2-Hexanone	CT / RSR GWPC (ug/l) / APS Organics	ND	40	35	35	ug/L
CB82850	$8260GWR	Isopropylbenzene	CT / RSR GWPC (ug/l) / APS Organics	36	20	25	25	ug/L
CB82850	$8260GWR	Bromodichloromethane	CT / RSR GWPC (ug/l) / APS Organics	ND	5.0	1	1	ug/L
CB82850	$8260GWR	Naphthalene	CT / RSR GWPC (ug/l) / Semivolatiles	3400	200	280	280	ug/L
CB82850	$8260GWR	Toluene	CT / RSR GWPC (ug/l) / Volatiles	1300	200	1000	1000	ug/L
CB82850	$8260GWR	Vinyl chloride	CT / RSR GWPC (ug/l) / Volatiles	ND	5.0	2	2	ug/L
CB82850	$8260GWR	Methylene chloride	CT / RSR GWPC (ug/l) / Volatiles	ND	20	5	5	ug/L
CB82850	$8260GWR	Ethylbenzene	CT / RSR GWPC (ug/l) / Volatiles	860	200	700	700	ug/L
CB82850	$8260GWR	1,1,2,2-Tetrachloroethane	CT / RSR GWPC (ug/l) / Volatiles	ND	5.0	0.5	0.5	ug/L
CB82850	$8260GWR	Dibromochloromethane	CT / RSR GWPC (ug/l) / Volatiles	ND	5.0	0.5	0.5	ug/L
CB82850	$8260GWR	1,1,1,2-Tetrachloroethane	CT / RSR GWPC (ug/l) / Volatiles	ND	5.0	1	1	ug/L
CB82850	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	5.0	0.05	0.05	ug/L
CB82850	$8260GWR	1,2-Dichloroethane	CT / RSR GWPC (ug/l) / Volatiles	ND	5.0	1	1	ug/L
CB82850	$8260GWR	Acrylonitrile	CT / RSR GWPC (ug/l) / Volatiles	ND	5.0	0.5	0.5	ug/L
CB82850	$8260GWR	Benzene	CT / RSR GWPC (ug/l) / Volatiles	890	140	1	1	ug/L
CB82850	$8260GWR	Bromoform	CT / RSR GWPC (ug/l) / Volatiles	ND	5.0	4	4	ug/L
CB82850	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR SWPC (ug/l) / APS Organics	ND	10	1.1	1.1	ug/L
CB82850	$8260GWR	Naphthalene	CT / RSR SWPC (ug/l) / APS Organics	3400	200	210	210	ug/L
CB82850	$8260GWR	Benzene	CT / RSR SWPC (ug/l) / Volatiles	890	140	710	710	ug/L
CB82850	$8270-WMR	Benzo(ghi)perylene	CT / RSR GWPC (ug/l) / APS Organics	ND	0.99	0.48	0.48	ug/L
CB82850	$8270-WMR	2-Methylnaphthalene	CT / RSR GWPC (ug/l) / APS Organics	230	50	28	28	ug/L

Monday, November 05, 2018
Criteria: CT: GWP, SWP
State: CT

Sample Criteria Exceedances Report

GCB82836 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB82850	$8270-WMR	Indeno(1,2,3-cd)pyrene	CT / RSR GWPC (ug/l) / APS Organics	ND	0.99	0.1	0.1	ug/L
CB82850	$8270-WMR	Dibenz(a,h)anthracene	CT / RSR GWPC (ug/l) / APS Organics	ND	0.99	0.1	0.1	ug/L
CB82850	$8270-WMR	Carbazole	CT / RSR GWPC (ug/l) / APS Organics	8.0	5.0	5	5	ug/L
CB82850	$8270-WMR	Dibenzofuran	CT / RSR GWPC (ug/l) / Semivolatiles	3.5	0.99	1	1	ug/L
CB82850	$8270-WMR	Benzo(k)fluoranthene	CT / RSR GWPC (ug/l) / Semivolatiles	ND	0.99	0.5	0.5	ug/L
CB82850	$8270-WMR	Naphthalene	CT / RSR GWPC (ug/l) / Semivolatiles	3300	250	280	280	ug/L
CB82850	$8270-WMR	Benzo(b)fluoranthene	CT / RSR GWPC (ug/l) / Semivolatiles	ND	0.99	0.08	0.08	ug/L
CB82850	$8270-WMR	Benzo(a)pyrene	CT / RSR GWPC (ug/l) / Semivolatiles	ND	0.99	0.2	0.2	ug/L
CB82850	$8270-WMR	Benz(a)anthracene	CT / RSR GWPC (ug/l) / Semivolatiles	ND	0.99	0.06	0.06	ug/L
CB82850	$8270-WMR	2-Methylnaphthalene	CT / RSR SWPC (ug/l) / APS Organics	230	50	62	62	ug/L
CB82850	$8270-WMR	Phenanthrene	CT / RSR SWPC (ug/l) / APS Organics	30	5.0	14	14	ug/L
CB82850	$8270-WMR	Naphthalene	CT / RSR SWPC (ug/l) / APS Organics	3300	250	210	210	ug/L
CB82850	$8270-WMR	Indeno(1,2,3-cd)pyrene	CT / RSR SWPC (ug/l) / APS Organics	ND	0.99	0.54	0.54	ug/L
CB82850	$8270-WMR	Hexachlorocyclopentadiene	CT / RSR SWPC (ug/l) / APS Organics	ND	0.99	0.7	0.7	ug/L
CB82850	$8270-WMR	Dibenz(a,h)anthracene	CT / RSR SWPC (ug/l) / APS Organics	ND	0.99	0.3	0.3	ug/L
CB82850	$8270-WMR	Chrysene	CT / RSR SWPC (ug/l) / APS Organics	ND	0.99	0.54	0.54	ug/L
CB82850	$8270-WMR	Benzo(a)pyrene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	0.99	0.3	0.3	ug/L
CB82850	$8270-WMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	30	5.0	0.077	0.077	ug/L
CB82850	$8270-WMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	20	5.0	0.3	0.3	ug/L
CB82850	$8270-WMR	Benz(a)anthracene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	0.99	0.3	0.3	ug/L
CB82850	$8270-WMR	Benzo(k)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	0.99	0.3	0.3	ug/L
CB82850	$8270-WMR	Benzo(b)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	0.99	0.3	0.3	ug/L
CB82850	$8270-WMR	Dibenzofuran	CT / RSR SWPC (ug/l) / Semivolatiles	3.5	0.99	0.077	0.077	ug/L
CB82850	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	3.2	0.069	0.5	0.5	mg/L
CB82850	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	3.2	0.069	0.25	0.25	mg/L
CB82850	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	3.2	0.069	0.25	0.25	mg/L
CB82851	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82851	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB82852	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB82852	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Tighe & Bond

Project Location: ROCKVILLE MGP ***Project Number:***

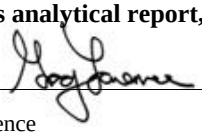
Laboratory Sample ID(s): CB82836-CB82852 ***Sampling Date(s):*** 10/24/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8260, 8270, ETPH, 9010/9012

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: SVOA Narration, SVOASIM Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Monday, November 05, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

CTDEP RCP Laboratory Analysis QA/QC Certification Form - November 2007
Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols

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RCP Certification Report

November 05, 2018

SDG I.D.: GCB82836

SDG Comments

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, this compound is analyzed by GC/ECD to achieve this criteria.
Lab Sample ID CB82841 and CB82850
Due to the concentration of target and non-target analytes not all of the requested criteria could be achieved. Please refer to the Sample Criteria Exceedances section of this report.

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 10/31/18-1 Dustin Harrison, Greg Danielewski, Chemist 10/31/18

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850

The samples were distilled in accordance with the method.
The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequencey of one per ten samples.
The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

LACHAT 11/01/18-1 Dustin Harrison, Greg Danielewski, Chemist 11/01/18

CB82851

The samples were distilled in accordance with the method.
The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequencey of one per ten samples.
The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

QC (Site Specific):

Batch 454189 (CB82836)

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850

All LCS recoveries were within 90 - 110 with the following exceptions: None.
All MS recoveries were within 90 - 110 with the following exceptions: None.
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

Batch 454364 (CB82851)

CB82851

All LCS recoveries were within 90 - 110 with the following exceptions: None.
All MS recoveries were within 90 - 110 with the following exceptions: None.

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November 05, 2018

SDG I.D.: GCB82836

Cyanide Narration

Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL1 10/29/18-1 Jeff Bucko, Chemist 10/29/18

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

The initial calibration (ETPH919I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 453741 (CB82836)

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 10/29/18 08:16 Rick Schweitzer, Chemist 10/29/18

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 453882 (CB83200)

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-

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Certification Report

November 05, 2018

SDG I.D.: GCB82836

Mercury Narration

125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

BLUE 10/27/18 13:09 Cindy Pearce, Emily Kolominskaya, Chemist 10/27/18

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 453757 (CB82080)

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

All LCS recoveries were within 75 - 125 with the following exceptions: None.

ICPMS Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ICPMS 10/30/18 17:39 Cindy Pearce, Chemist 10/30/18

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following samples did not meet internal standard criteria: None.

QC (Batch Specific):

Batch 453844 (CB82087)

CB82836, CB82837, CB82838, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

All LCS recoveries were within 75 - 125 with the following exceptions: None.

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RCP Certification Report

November 05, 2018

SDG I.D.: GCB82836

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 453740 (Samples: CB82836, CB82837, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851): -----

The LCS/LCSD recovery is below the lower range, but within the method criteria. A low bias of these analytes is possible. (Hexachlorocyclopentadiene, Pyridine)

The LCS and/or the LCSD recovery is below the lower range but within the method criteria. The other QC is acceptable. A slight low bias is possible. (2,4-Dinitrophenol, N-Nitrosodimethylamine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes and two of the surrogates. These analytes were not reported in the sample(s). A slight variability is possible. (1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dinitrophenol, 2-Chlorophenol, 4,6-Dinitro-2-methylphenol, Benzidine, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Hexachlorobutadiene, Hexachloroethane, N-Nitrosodimethylamine, Phenol, Pyridine, % 2-Fluorophenol, % Phenol-d5)

QC Batch 454143 (Samples: CB82838): -----

The LCS recovery is below the method criteria. The LCSDS is acceptable. A low bias is possible. (Benzidine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (3,3''-Dichlorobenzidine, Benzoic acid)

Instrument:

CHEM04 10/30/18-1 Wes Bryon, Chemist 10/30/18

CB82839, CB82840, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM04/4_SPLIT_1022):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 26% (20%), 4,6-Dinitro-2-methylphenol 29% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.057 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/1030_03-4_SPLIT_1022):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.073 (0.1)
The following compounds did not meet minimum response factors: None.

CHEM04 10/31/18-1 Wes Bryon, Chemist 10/31/18

CB82837, CB82851

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

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RCP Certification Report

November 05, 2018

SDG I.D.: GCB82836

SVOA Narration

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM04/4_SPLIT_1022):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 26% (20%), 4,6-Dinitro-2-methylphenol 29% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.057 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/1031_03-4_SPLIT_1022):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.073 (0.1)
The following compounds did not meet minimum response factors: None.

CHEM06 10/29/18-1 Wes Bryon, Chemist 10/29/18

CB82836

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM06/6_SPLIT_1009):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 2-Nitroaniline 24% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.076 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/1029_03-6_SPLIT_1009):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.075 (0.1)
The following compounds did not meet minimum response factors: None.

CHEM06 11/02/18-1 Wes Bryon, Chemist 11/02/18

CB82838

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM06/6_SPLIT_1101):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 25% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.097 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/1102_03-6_SPLIT_1101):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

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RCP Certification Report

November 05, 2018

SDG I.D.: GCB82836

SVOA Narration

100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM07 10/30/18-1 Wes Bryon, Chemist 10/30/18

CB82841, CB82850

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM07/7_SPLIT_1017):
92% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 28% (20%), 4,6-Dinitro-2-methylphenol 22% (20%), Benzoic acid 22% (20%), Hexachlorocyclopentadiene 22% (20%), Pentachlorophenol 28% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.093 (0.1), Hexachlorobenzene 0.074 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/1030_03-7_SPLIT_1017):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Benzoic acid 32%H (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.093 (0.1), Hexachlorobenzene 0.069 (0.1)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 453740 (CB83214)

CB82836, CB82837, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

All LCS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(15%), Hexachlorocyclopentadiene(18%), Pyridine(18%)
All LCSD recoveries were within 30 - 130 with the following exceptions: Hexachlorocyclopentadiene(24%), N-Nitrosodimethylamine(23%), Pyridine(17%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: % 2-Fluorophenol(38.6%), 1,2-Dichlorobenzene(25.0%), 1,3-Dichlorobenzene(33.8%), 1,4-Dichlorobenzene(30.0%), 2,4-Dinitrophenol(110.4%), 3,3'-Dichlorobenzidine(27.6%), 4,6-Dinitro-2-methylphenol(70.6%), 4-Chloroaniline(28.6%), Benzidine(66.7%), Benzo(ghi)perylene(21.9%), Dibenz(a,h)anthracene(20.9%), Hexachlorocyclopentadiene(28.6%), Hexachloroethane(31.6%), N-Nitrosodimethylamine(29.6%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 454143 (CB82838)

CB82838

All LCS recoveries were within 30 - 130 with the following exceptions: Benzidine(<10%)
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: 3,3'-Dichlorobenzidine(27.5%), Benzoic acid(56.8%)

Environmental Laboratories, Inc.
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RCP Certification Report

November 05, 2018

SDG I.D.: GCB82836

SVOA Narration

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 453740 (Samples: CB82836, CB82837, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851): -----

The LCSD recovery is below the lower range but within the method criteria. The LCS recovery is acceptable. A slight low bias is possible. (Hexachloroethane, Pyridine)

The LCS/LCSD RPD exceeds the method criteria for one analyte and one surrogate. This analyte was not reported in the sample(s). No significant variability is suspected. (Hexachloroethane, % 2-Fluorophenol)

QC Batch 454143 (Samples: CB82838): -----

The LCS/LCSD recovery for one analyte is below the lower range but within the method criteria. A slight low bias for this analyte is possible. (Hexachlorocyclopentadiene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2-Methylnaphthalene, Pyridine)

Instrument:

CHEM27 10/29/18-1 Harry Mullin, Chemist 10/29/18

CB82836, CB82837, CB82839, CB82840, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM27/27_SIM_1026):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Hexachloroethane 28% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/1029_03-27_SIM_1026):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM27 10/30/18-1 Harry Mullin, Chemist 10/30/18

CB82851

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

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RCP Certification Report

November 05, 2018

SDG I.D.: GCB82836

SVOASIM Narration

Initial Calibration Verification (CHEM27/27_SIM_1026):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Hexachloroethane 28% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/1030_07-27_SIM_1026):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
95% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Bis(2-ethylhexyl)phthalate 34%H (30%), Pentachlorophenol 48%H (30%)
The following compounds did not meet maximum % deviations: Pentachlorophenol 48%H (40%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM27 11/01/18-2 Harry Mullin, Chemist 11/01/18

CB82838

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM27/27_SIM_1026):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Hexachloroethane 28% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/1101_19-27_SIM_1026):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 453740 (CB83214)

CB82836, CB82837, CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845, CB82846, CB82847, CB82848, CB82849, CB82850, CB82851

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: Hexachloroethane(27%), Pyridine(29%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: % 2-Fluorophenol(33.3%), Hexachloroethane(25.8%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 454143 (CB82838)

CB82838

All LCS recoveries were within 30 - 130 with the following exceptions: Hexachlorocyclopentadiene(28%)
All LCSD recoveries were within 30 - 130 with the following exceptions: Hexachlorocyclopentadiene(29%)

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RCP Certification Report

November 05, 2018

SDG I.D.: GCB82836

SVOASIM Narration

All LCS/LCSD RPDs were less than 20% with the following exceptions: 2-Methylnaphthalene(26.3%), Pyridine(24.0%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 454275 (Samples: CB82836, CB82837, CB82838, CB82839, CB82852): -----

The LCS recovery is below the lower range but within the method criteria. The LCSD recovery is acceptable. No significant bias is suspected. (Tetrahydrofuran (THF))

QC Batch 454467 (Samples: CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845): -----

The LCSD recovery is below the lower range but within the method criteria. The LCS recovery is acceptable. A slight low bias is possible. (4-Methyl-2-pentanone, Acetone, Chloromethane, Dichlorodifluoromethane, Tetrahydrofuran (THF))

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Dichlorodifluoromethane)

Instrument:

CHEM15 10/30/18-2 Harry Mullin, Chemist 10/30/18

CB82846, CB82847, CB82848, CB82849, CB82850

Initial Calibration Verification (CHEM15/VOA15-102918):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM15/1030B27-VOA15-102918):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM15 10/31/18-1 Harry Mullin, Chemist 10/31/18

CB82850, CB82851

Initial Calibration Verification (CHEM15/VOA15-102918):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM15/1031B04-VOA15-102918):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.

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RCP Certification Report

November 05, 2018

SDG I.D.: GCB82836

VOA Narration

The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM17 10/30/18-2 Michael Hahn, Chemist 10/30/18

CB82836, CB82837, CB82838, CB82839, CB82852

Initial Calibration Verification (CHEM17/VT-S1029):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Tetrahydrofuran (THF) 24% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.040 (0.05), 2-Hexanone 0.075 (0.1), Acetone 0.037 (0.1), Bromoform 0.083 (0.1), Methyl ethyl ketone 0.055 (0.1), Tetrahydrofuran (THF) 0.041 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/1030_25-VT-S1029):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Bromomethane 36%L (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.039 (0.05), Acrylonitrile 0.046 (0.05), Bromoform 0.074 (0.1), Tetrahydrofuran (THF) 0.033 (0.05)
The following compounds did not meet minimum response factors: None.

CHEM17 10/31/18-1 Michael Hahn, Chemist 10/31/18

CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845

Initial Calibration Verification (CHEM17/VT-S1029):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Tetrahydrofuran (THF) 24% (20%)
The following compounds did not meet recommended response factors: Methyl ethyl ketone 0.055 (0.1), Tetrahydrofuran (THF) 0.041 (0.05), 1,2-Dibromo-3-chloropropane 0.040 (0.05), 2-Hexanone 0.075 (0.1), Acetone 0.037 (0.1), Bromoform 0.083 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/1031_02-VT-S1029):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Tetrahydrofuran (THF) 0.034 (0.05), 1,2-Dibromo-3-chloropropane 0.040 (0.05), Acrylonitrile 0.049 (0.05), Bromoform 0.076 (0.1)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 454231 (CB83890)

CB82846, CB82847, CB82848, CB82849, CB82850

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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RCP Certification Report

November 05, 2018

SDG I.D.: GCB82836

VOA Narration

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 454275 (CB82540)

CB82836, CB82837, CB82838, CB82839, CB82852

All LCS recoveries were within 70 - 130 with the following exceptions: Tetrahydrofuran (THF)(69%)
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 454436 (CB84412)

CB82850, CB82851

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 454467 (CB83044)

CB82839, CB82840, CB82841, CB82842, CB82843, CB82844, CB82845

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: 4-Methyl-2-pentanone(67%), Acetone(62%), Chloromethane(62%), Dichlorodifluoromethane(55%), Tetrahydrofuran (THF)(64%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: Dichlorodifluoromethane(32.1%)
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 3.6C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

CHAIN OF CUSTODY RECORD

PHOENIX *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Coolant: IPK ICE Cooler: Yes No

Temp 2.1°C Pg 1 of 2

Data Delivery/Contact Options:
Fax:
Phone:
Email: LEWilley@TigheBond.com

Customer: Tighe & Bond
Address: 213 Court Street, Middletown, CT 06457

Project: Rockville MGP
Report to: Lynn Willey
Invoice to: Tighe & Bond
QUOTE # TI012517BA

Project P.O: 14-0755-44B

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 10/25/18

Client Sample - Information - Identification

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	ETPH	SVOCs	RSR Metals	Total Cyanide	GL Amber 8 oz w/HSPOA	Soil VOA Vials [ ] MeOH [ ] H2O	GL Soil container [ ] 2oz	GL Soil container [ ] 4oz	40 ml VOA Vial [ ] As is [ ] HCl	PL Amber 1000ml [ ] As is [ ] HCl	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	25 Gram Encore	Bacteria Bottle as is
828536	MW-4SR	GW	10/24/2018	9:26	X	X	X	X									3	3	
828537	MW-25S	GW	10/24/2018	10:44	X	X	X	X									1	1	
828538	MW-10BR	GW	10/24/2018	11:34	X	X	X	X									3	3	
828539	MW-30S	GW	10/24/2018	12:26	X	X	X	X									1	1	
828540	MW-3BR	GW	10/24/2018	14:03	X	X	X	X									3	3	
828541	MW-18D	GW	10/24/2018	14:30	X	X	X	X									1	1	
828542	MW-13S	GW	10/24/2018	16:05	X	X	X	X									3	3	
828543	MW-26S	GW	10/25/2018	8:35	X	X	X	X									1	1	
828544	MW-28S	GW	10/25/2018	9:10	X	X	X	X									3	3	
828545	MW-26D	GW	10/25/2018	10:20	X	X	X	X									1	1	
828546	MW-27S	GW	10/25/2018	11:40	X	X	X	X									3	3	
828547	MW-26BR	GW	10/25/2018	11:42	X	X	X	X									1	1	
																	3	3	
																	1	1	

Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil B=Bulk L=Liquid

Relinquished by: [signature] Date: 10-24-18 Time: 11:30

Accepted by: [signature] Date: 10/25/18 Time: 1248

CT
- RCP Cert
- GW Protection
- SW Protection
- GA Mobility
- GB Mobility
- Residential DEC
- I/C DEC
- Other

RI
- Direct Exposure (Residential)
- GW
- Other

MA
- MCP Certification
- GW-1
- GW-2
- GW-3
- S-1
- S-2
- S-3
- MWRA eSMART
- Other

Data Format
- Excel
- PDF
- GIS/Key
- EQuIS
- Other (geotech)

Data Package
- Tier II Checklist
- Full Data Package*
- Phoenix Std Report
- Other

Turnaround:
- 1 Day*
- 2 Days*
- 3 Days*
- Standard
- Other

State where samples were collected:

Comments, Special Requirements or Regulations:

DAS Pricing Quote: TI012517BA

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]
Temp 3.1°C Pg 2 of 2

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: LEWilley@TigheBond.com

Customer: Tighe & Bond
Address: 213 Court Street
Middletown, CT 06457

Project: Rockville MGP
Report to: Lynn Willey
Invoice to: Tighe & Bond
QUOTE # TI012517BA

Project P.O: 14-0755-44B

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature [signature] Date: 10/25/18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	ETPH	SVOCs	RSR Metals	Total Cyanide	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	25 Gram EnCore	Bacteria Bottle as is
82848	MW-13D	GW	10/25/2018	13:37	X	X	X	X	X					3	3			1	1		
82849	MW-7D	GW	10/25/2018	14:10	X	X	X	X	X					3	3			1	1		
82850	MW-DUP	GW	10/25/2018	14:36	X	X	X	X	X					3	3			1	1		
82851	EQ-Blank	GW	10/24/2018	15:00	X	X	X	X	X					3	3			1	1		
82852	Trip Blank	-	-	-	X	X	X	X	X					2							
					X	X	X	X	X												
					X	X	X	X	X												
					X	X	X	X	X												
					X	X	X	X	X												
					X	X	X	X	X												
					X	X	X	X	X												
					X	X	X	X	X												

Relinquished by:	Accepted by:	Date:	Time:
[signature] 7-Sep 1200	[signature]	10-26	11:30
[signature]	[signature]	10/26/18	1248

Comments, Special Requirements or Regulations:

DAS Pricing Quote: TI012517BA

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[X] RCP Cert
[ ] GW Protection
[X] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[X] Other (geotech)

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other

State where samples were collected

PHOENIX
Environmental Laboratories, Inc.

Monday, November 19, 2018

Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: ROCKVILLE MGP
Sample ID#s: CB96386 - CB96391, CB96501

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

November 19, 2018

SDG I.D.: GCB96386

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, this compound is analyzed by GC/ECD to achieve this criteria.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 19, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	WC	11/12/18	12:35
Location Code:	TIGHE-DAS	Received by:	CP	11/13/18	11:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB96386
Phoenix ID: CB96386

Project ID: ROCKVILLE MGP
Client ID: MW-14D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.001	0.001	mg/L	1	11/14/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	11/14/18	CPP	SW6010C
Barium	0.209	0.002	mg/L	1	11/14/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	11/14/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	11/14/18	CPP	SW6010C
Chromium	0.009	0.001	mg/L	1	11/14/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	11/14/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	11/14/18	RS	SW7470A
Nickel	0.138	0.001	mg/L	1	11/14/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	11/14/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	11/14/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	11/14/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	11/16/18	MGH	SW6020B
Vanadium	0.003	0.002	mg/L	1	11/14/18	CPP	SW6010C
Zinc	0.007	0.004	mg/L	1	11/14/18	CPP	SW6010C
Total Cyanide	< 0.010	0.010	mg/L	1	11/16/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				11/13/18	P/D/R	SW3510C/SW3520C
Mercury Digestion	Completed				11/14/18	D/W	SW7470A
Semi-Volatile Extraction	Completed				11/13/18	P/D/R	SW3520C
Total Metals Digestion	Completed				11/13/18	AG	
Total Metals Digestion MS	Completed				11/15/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.32	0.068	mg/L	1	11/14/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	11/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	11/14/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-14D

Phoenix I.D.: CB96386

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1,1-Trichloroethane	1.2	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2,4-Trimethylbenzene	5.2	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	11/14/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	11/14/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
Acetone	ND	25	ug/L	1	11/14/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
Benzene	40	7.0	ug/L	10	11/14/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/14/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Ethylbenzene	3.2	1.0	ug/L	1	11/14/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	11/14/18	MH	SW8260C
Isopropylbenzene	3.4	1.0	ug/L	1	11/14/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-14D

Phoenix I.D.: CB96386

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	4.8	1.0	ug/L	1	11/14/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Naphthalene	150	10	ug/L	10	11/14/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
o-Xylene	14	1.0	ug/L	1	11/14/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/14/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Total Xylenes	18.8	1.0	ug/L	1	11/14/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/14/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	11/14/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	11/14/18	MH	70 - 130 %
% Dibromofluoromethane	91		%	1	11/14/18	MH	70 - 130 %
% Toluene-d8	97		%	1	11/14/18	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	5.0	0.09	ug/L	1	11/14/18	AW	SW8270D (SIM)
Acenaphthene	7.7	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Acenaphthylene	0.42	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Anthracene	0.33	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Fluoranthene	0.20	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Fluorene	2.2	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Naphthalene	92	0.09	ug/L	1	11/15/18	AW	SW8270D (SIM)
Phenanthrene	1.2	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Pyrene	0.25	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	49		%	1	11/14/18	AW	30 - 130 %
% Nitrobenzene-d5	34		%	1	11/14/18	AW	30 - 130 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-14D

Phoenix I.D.: CB96386

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	69		%	1	11/14/18	AW	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
November 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 19, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	WC	11/12/18	10:25
Location Code:	TIGHE-DAS	Received by:	CP	11/13/18	11:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB96386
Phoenix ID: CB96387

Project ID: ROCKVILLE MGP
Client ID: MW-14S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	11/14/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	11/14/18	CPP	SW6010C
Barium	0.283	0.002	mg/L	1	11/14/18	CPP	SW6010C
Beryllium	< 0.001	0.001	mg/L	1	11/14/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	11/14/18	CPP	SW6010C
Chromium	0.014	0.001	mg/L	1	11/14/18	CPP	SW6010C
Copper	< 0.005	0.005	mg/L	1	11/14/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	11/14/18	RS	SW7470A
Nickel	0.244	0.001	mg/L	1	11/14/18	CPP	SW6010C
Lead	< 0.002	0.002	mg/L	1	11/14/18	CPP	SW6010C
Antimony	< 0.005	0.005	mg/L	1	11/14/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	11/14/18	CPP	SW6010C
Thallium	< 0.0005	0.0005	mg/L	5	11/16/18	MGH	SW6020B
Vanadium	0.002	0.002	mg/L	1	11/14/18	CPP	SW6010C
Zinc	0.018	0.004	mg/L	1	11/14/18	CPP	SW6010C
Total Cyanide	0.014	0.010	mg/L	1	11/16/18	O/GD	SW9010C/SW9012B
Extraction of CT ETPH	Completed				11/13/18	P/D/R	SW3510C/SW3520C
Mercury Digestion	Completed				11/14/18	D/W	SW7470A
Semi-Volatile Extraction	Completed				11/13/18	P/D/R	SW3520C
Total Metals Digestion	Completed				11/13/18	AG	
Total Metals Digestion MS	Completed				11/15/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	11/14/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	11/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	11/14/18	JRB	50 - 150 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-14S

Phoenix I.D.: CB96387

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	11/14/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	11/14/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
Acetone	ND	25	ug/L	1	11/14/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	11/14/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/14/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	11/14/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	11/14/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-14S

Phoenix I.D.: CB96387

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/14/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/14/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/14/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	11/14/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	11/14/18	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	11/14/18	MH	70 - 130 %
% Dibromofluoromethane	92		%	1	11/14/18	MH	70 - 130 %
% Toluene-d8	99		%	1	11/14/18	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.10	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	52		%	1	11/14/18	KCA	30 - 130 %
% Nitrobenzene-d5	44		%	1	11/14/18	KCA	30 - 130 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: MW-14S

Phoenix I.D.: CB96387

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	64		%	1	11/14/18	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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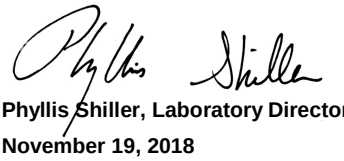

Phyllis Shiller, Laboratory Director

November 19, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 19, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	WC	11/12/18	14:55
Location Code:	TIGHE-DAS	Received by:	CP	11/13/18	11:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB96386
Phoenix ID: CB96388

Project ID: ROCKVILLE MGP
Client ID: MW-26D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semi-Volatile Extraction	Completed				11/13/18	P/D/R	SW3520C
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.09	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Acenaphthene	0.39	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Acenaphthylene	1.2	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Fluoranthene	ND	0.28	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Fluorene	0.81	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Naphthalene	0.24	0.09	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Phenanthrene	0.28	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Pyrene	ND	0.28	ug/L	1	11/14/18	KCA	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	55		%	1	11/14/18	KCA	30 - 130 %
% Nitrobenzene-d5	46		%	1	11/14/18	KCA	30 - 130 %
% Terphenyl-d14	68		%	1	11/14/18	KCA	30 - 130 %

Project ID: ROCKVILLE MGP
Client ID: MW-26D

Phoenix I.D.: CB96388

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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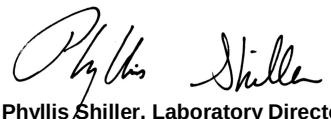

Phyllis Shiller, Laboratory Director
November 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 19, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	WC	11/12/18	14:55
Location Code:	TIGHE-DAS	Received by:	CP	11/13/18	11:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB96386
Phoenix ID: CB96389

Project ID: ROCKVILLE MGP
Client ID: MW-26D FILTERED

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semi-Volatile Extraction	Completed				11/13/18	P/D/R	SW3520C
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.09	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Acenaphthene	ND	0.09	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.19	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Fluorene	ND	0.11	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	11/14/18	KCA	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	53		%	1	11/14/18	KCA	30 - 130 %
% Nitrobenzene-d5	41		%	1	11/14/18	KCA	30 - 130 %
% Terphenyl-d14	61		%	1	11/14/18	KCA	30 - 130 %

Project ID: ROCKVILLE MGP
Client ID: MW-26D FILTERED

Phoenix I.D.: CB96389

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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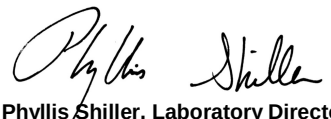

Phyllis Shiller, Laboratory Director
November 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 19, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	WC	11/12/18	16:20
Location Code:	TIGHE-DAS	Received by:	CP	11/13/18	11:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB96386
Phoenix ID: CB96390

Project ID: ROCKVILLE MGP
Client ID: MW-30S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				11/13/18	P/D/R	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				11/13/18	P/D/R	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.64	0.069	mg/L	1	11/14/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	11/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	11/14/18	JRB	50 - 150 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	1.0	0.10	ug/L	1	11/14/18	AW	SW8270D (SIM)
Acenaphthene	3.3	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Acenaphthylene	0.74	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Anthracene	0.96	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benz(a)anthracene	0.08	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Chrysene	0.10	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Fluoranthene	0.67	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Fluorene	3.2	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Naphthalene	70	0.10	ug/L	1	11/15/18	AW	SW8270D (SIM)
Phenanthrene	0.84	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Pyrene	0.52	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
QA/QC Surrogates							

Project ID: ROCKVILLE MGP
Client ID: MW-30S

Phoenix I.D.: CB96390

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	51		%	1	11/14/18	AW	30 - 130 %
% Nitrobenzene-d5	37		%	1	11/14/18	AW	30 - 130 %
% Terphenyl-d14	56		%	1	11/14/18	AW	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 19, 2018

FOR: Attn: Lynn Willey
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	WC	11/12/18	16:20
Location Code:	TIGHE-DAS	Received by:	CP	11/13/18	11:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB96386
Phoenix ID: CB96391

Project ID: ROCKVILLE MGP
Client ID: MW-30S FILTERED

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				11/13/18	P/D/R	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				11/13/18	P/D/R	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.50	0.067	mg/L	1	11/14/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	11/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	11/14/18	JRB	50 - 150 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	0.45	0.09	ug/L	1	11/14/18	AW	SW8270D (SIM)
Acenaphthene	2.4	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Acenaphthylene	1.7	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Anthracene	0.52	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Fluoranthene	0.27	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Fluorene	1.1	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Naphthalene	49	0.09	ug/L	1	11/15/18	AW	SW8270D (SIM)
Phenanthrene	0.37	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
Pyrene	0.39	0.05	ug/L	1	11/14/18	AW	SW8270D (SIM)
QA/QC Surrogates							

Project ID: ROCKVILLE MGP
Client ID: MW-30S FILTERED

Phoenix I.D.: CB96391

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	53		%	1	11/14/18	AW	30 - 130 %
% Nitrobenzene-d5	39		%	1	11/14/18	AW	30 - 130 %
% Terphenyl-d14	68		%	1	11/14/18	AW	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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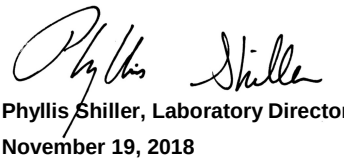

Phyllis Shiller, Laboratory Director
November 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 19, 2018

FOR: Attn: Ms. Lynn Wiley
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	WC	11/12/18	
Location Code:	TIGHE-DAS	Received by:	LB	11/13/18	11:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14-0755-44B				

Laboratory Data

SDG ID: GCB96386
Phoenix ID: CB96501

Project ID: ROCKVILLE MGP
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/13/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/13/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	11/13/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	11/13/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	11/13/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/13/18	MH	SW8260C

Project ID: ROCKVILLE MGP
Client ID: TRIP BLANK

Phoenix I.D.: CB96501

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	11/13/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	11/13/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	11/13/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	11/13/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	11/13/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/13/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	11/13/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	11/13/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	11/13/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/13/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/13/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/13/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	11/13/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	11/13/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	11/13/18	MH	70 - 130 %
% Dibromofluoromethane	92		%	1	11/13/18	MH	70 - 130 %

Ver 1

Project ID: ROCKVILLE MGP
Client ID: TRIP BLANK

Phoenix I.D.: CB96501

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98		%	1	11/13/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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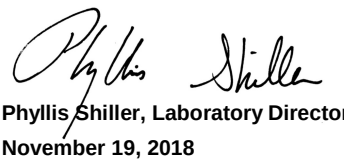

Phyllis Shiller, Laboratory Director
November 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

November 19, 2018

QA/QC Data

SDG I.D.: GCB96386

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 456228 (mg/L), QC Sample No: CB96387 (CB96386, CB96387)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	99.0			84.4			80 - 120	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 456186 (mg/L), QC Sample No: CB96754 (CB96386, CB96387)													
ICP Metals - Aqueous													
Antimony	BRL	0.005	<0.005	<0.005	NC	104			103			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.6			97.8			75 - 125	20
Barium	BRL	0.002	<0.002	<0.002	NC	101			99.6			75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	100			98.4			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	98.7			97.9			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	99.6			98.7			75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	102			101			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	99.8			99.0			75 - 125	20
Nickel	BRL	0.001	<0.001	<0.001	NC	99.0			98.6			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	94.7			93.3			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	97.9			98.1			75 - 125	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	100			99.6			75 - 125	20
Zinc	BRL	0.004	0.023	0.022	4.40	97.3			96.7			75 - 125	20
QA/QC Batch 456474 (mg/L), QC Sample No: CB96386 5X (CB96386, CB96387)													
ICP MS Metals - Aqueous													
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	98.6			100			75 - 125	20

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QA/QC Report

November 19, 2018

QA/QC Data

SDG I.D.: GCB96386

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 456521 (mg/L), QC Sample No: CB91971 (CB96386, CB96387)													
Total Cyanide	BRL	0.010	<0.010	<0.010	NC	92.7			102			90 - 110	20
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													

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QA/QC Report

November 19, 2018

QA/QC Data

SDG I.D.: GCB96386

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 456159 (mg/L), QC Sample No: CB96386 (CB96386, CB96387, CB96390, CB96391)											
TPH by GC (Extractable Products) - Ground Water											
Ext. Petroleum H.C. (C9-C36)	ND	0.10	94	95	1.1				60 - 120	30	
% n-Pentacosane	79	%	80	80	0.0				50 - 150	20	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 456158 (ug/L), QC Sample No: CB96386 (CB96386, CB96387, CB96388, CB96389, CB96390, CB96391)											
Semivolatiles by SIM, PAH - Ground Water											
2-Methylnaphthalene	ND	0.05	31	32	3.2				30 - 130	20	
Acenaphthene	ND	0.05	56	52	7.4				30 - 130	20	
Acenaphthylene	ND	0.04	48	44	8.7				30 - 130	20	
Anthracene	ND	0.02	64	62	3.2				30 - 130	20	
Benz(a)anthracene	ND	0.02	72	67	7.2				30 - 130	20	
Benzo(a)pyrene	ND	0.02	72	68	5.7				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	73	70	4.2				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	62	59	5.0				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	65	64	1.6				30 - 130	20	
Chrysene	ND	0.02	68	65	4.5				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	77	74	4.0				30 - 130	20	
Fluoranthene	ND	0.04	65	63	3.1				30 - 130	20	
Fluorene	ND	0.05	59	56	5.2				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	74	71	4.1				30 - 130	20	
Naphthalene	ND	0.05	30	30	0.0				30 - 130	20	
Phenanthrene	ND	0.05	63	60	4.9				30 - 130	20	
Pyrene	ND	0.02	68	65	4.5				30 - 130	20	
% 2-Fluorobiphenyl	40	%	45	43	4.5				30 - 130	20	
% Nitrobenzene-d5	22	%	30	28	6.9				30 - 130	20	I,s
% Terphenyl-d14	69	%	71	71	0.0				30 - 130	20	
Comment:											
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)											
QA/QC Batch 456620 (ug/L), QC Sample No: CB96297 (CB96386 (10X) , CB96387)											
Volatiles - Ground Water											
1,1,1,2-Tetrachloroethane	ND	1.0	100	102	2.0				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	123	127	3.2				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	102	105	2.9				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	97	95	2.1				70 - 130	30	
1,1-Dichloroethane	ND	1.0	110	113	2.7				70 - 130	30	
1,1-Dichloroethene	ND	1.0	115	117	1.7				70 - 130	30	
1,1-Dichloropropene	ND	1.0	119	123	3.3				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	105	100	4.9				70 - 130	30	

QA/QC Data

SDG I.D.: GCB96386

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichloropropane	ND	1.0	103	109	5.7				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	97	97	0.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	105	111	5.6				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	90	93	3.3				70 - 130	30
1,2-Dibromoethane	ND	1.0	99	99	0.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	100	101	1.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	112	111	0.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	101	102	1.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	107	114	6.3				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	101	105	3.9				70 - 130	30
1,3-Dichloropropane	ND	1.0	103	104	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	100	104	3.9				70 - 130	30
2,2-Dichloropropane	ND	1.0	141	143	1.4				70 - 130	30
2-Chlorotoluene	ND	1.0	103	109	5.7				70 - 130	30
2-Hexanone	ND	5.0	81	76	6.4				70 - 130	30
2-Isopropyltoluene	ND	1.0	103	110	6.6				70 - 130	30
4-Chlorotoluene	ND	1.0	103	108	4.7				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	88	85	3.5				70 - 130	30
Acetone	ND	5.0	95	92	3.2				70 - 130	30
Acrylonitrile	ND	5.0	94	92	2.2				70 - 130	30
Benzene	ND	0.70	103	106	2.9				70 - 130	30
Bromobenzene	ND	1.0	100	104	3.9				70 - 130	30
Bromochloromethane	ND	1.0	100	103	3.0				70 - 130	30
Bromodichloromethane	ND	0.50	102	104	1.9				70 - 130	30
Bromoform	ND	1.0	95	94	1.1				70 - 130	30
Bromomethane	ND	1.0	111	114	2.7				70 - 130	30
Carbon Disulfide	ND	1.0	102	104	1.9				70 - 130	30
Carbon tetrachloride	ND	1.0	121	126	4.0				70 - 130	30
Chlorobenzene	ND	1.0	100	103	3.0				70 - 130	30
Chloroethane	ND	1.0	104	107	2.8				70 - 130	30
Chloroform	ND	1.0	106	106	0.0				70 - 130	30
Chloromethane	ND	1.0	105	108	2.8				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	108	111	2.7				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	104	104	0.0				70 - 130	30
Dibromochloromethane	ND	0.50	97	97	0.0				70 - 130	30
Dibromomethane	ND	1.0	94	91	3.2				70 - 130	30
Dichlorodifluoromethane	ND	1.0	165	168	1.8				70 - 130	30
Ethylbenzene	ND	1.0	103	107	3.8				70 - 130	30
Hexachlorobutadiene	ND	0.40	109	114	4.5				70 - 130	30
Isopropylbenzene	ND	1.0	108	114	5.4				70 - 130	30
m&p-Xylene	ND	1.0	103	109	5.7				70 - 130	30
Methyl ethyl ketone	ND	5.0	93	90	3.3				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	103	102	1.0				70 - 130	30
Methylene chloride	ND	1.0	105	107	1.9				70 - 130	30
Naphthalene	ND	1.0	103	102	1.0				70 - 130	30
n-Butylbenzene	ND	1.0	116	124	6.7				70 - 130	30
n-Propylbenzene	ND	1.0	108	115	6.3				70 - 130	30
o-Xylene	ND	1.0	99	104	4.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	109	117	7.1				70 - 130	30
sec-Butylbenzene	ND	1.0	116	125	7.5				70 - 130	30
Styrene	ND	1.0	100	102	2.0				70 - 130	30
tert-Butylbenzene	ND	1.0	107	115	7.2				70 - 130	30
Tetrachloroethene	ND	1.0	100	105	4.9				70 - 130	30

QA/QC Data

SDG I.D.: GCB96386

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Tetrahydrofuran (THF)	ND	2.5	93	91	2.2				70 - 130	30	
Toluene	ND	1.0	101	105	3.9				70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	115	118	2.6				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	99	101	2.0				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	103	105	1.9				70 - 130	30	
Trichloroethene	ND	1.0	104	107	2.8				70 - 130	30	
Trichlorofluoromethane	ND	1.0	132	136	3.0				70 - 130	30	I
Trichlorotrifluoroethane	ND	1.0	112	114	1.8				70 - 130	30	
Vinyl chloride	ND	1.0	120	124	3.3				70 - 130	30	
% 1,2-dichlorobenzene-d4	97	%	99	97	2.0				70 - 130	30	
% Bromofluorobenzene	99	%	103	101	2.0				70 - 130	30	
% Dibromofluoromethane	89	%	94	90	4.3				70 - 130	30	
% Toluene-d8	98	%	99	99	0.0				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 456271 (ug/L), QC Sample No: CB96501 (CB96386, CB96501)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	96	114	17.1				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	110	129	15.9				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	92	112	19.6				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	91	106	15.2				70 - 130	30	
1,1-Dichloroethane	ND	1.0	98	117	17.7				70 - 130	30	
1,1-Dichloroethene	ND	1.0	96	112	15.4				70 - 130	30	
1,1-Dichloropropene	ND	1.0	108	125	14.6				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	100	114	13.1				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	97	118	19.5				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	92	107	15.1				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	100	117	15.7				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	88	106	18.6				70 - 130	30	
1,2-Dibromoethane	ND	1.0	94	110	15.7				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	94	111	16.6				70 - 130	30	
1,2-Dichloroethane	ND	1.0	103	120	15.2				70 - 130	30	
1,2-Dichloropropane	ND	1.0	93	109	15.8				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	101	119	16.4				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	97	113	15.2				70 - 130	30	
1,3-Dichloropropane	ND	1.0	96	113	16.3				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	96	112	15.4				70 - 130	30	
2,2-Dichloropropane	ND	1.0	118	139	16.3				70 - 130	30	I
2-Chlorotoluene	ND	1.0	100	115	14.0				70 - 130	30	
2-Hexanone	ND	5.0	74	91	20.6				70 - 130	30	
2-Isopropyltoluene	ND	1.0	98	115	16.0				70 - 130	30	
4-Chlorotoluene	ND	1.0	98	115	16.0				70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	80	93	15.0				70 - 130	30	
Acetone	ND	5.0	78	95	19.7				70 - 130	30	
Acrylonitrile	ND	5.0	80	100	22.2				70 - 130	30	
Benzene	ND	0.70	95	113	17.3				70 - 130	30	
Bromobenzene	ND	1.0	97	114	16.1				70 - 130	30	
Bromochloromethane	ND	1.0	92	111	18.7				70 - 130	30	
Bromodichloromethane	ND	0.50	97	115	17.0				70 - 130	30	
Bromoform	ND	1.0	91	109	18.0				70 - 130	30	
Bromomethane	ND	1.0	97	114	16.1				70 - 130	30	

QA/QC Data

SDG I.D.: GCB96386

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Carbon Disulfide	ND	1.0	86	102	17.0				70 - 130	30	
Carbon tetrachloride	ND	1.0	106	128	18.8				70 - 130	30	
Chlorobenzene	ND	1.0	95	112	16.4				70 - 130	30	
Chloroethane	ND	1.0	90	108	18.2				70 - 130	30	
Chloroform	ND	1.0	93	114	20.3				70 - 130	30	
Chloromethane	ND	1.0	91	110	18.9				70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	97	118	19.5				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	94	112	17.5				70 - 130	30	
Dibromochloromethane	ND	0.50	93	110	16.7				70 - 130	30	
Dibromomethane	ND	1.0	87	100	13.9				70 - 130	30	
Dichlorodifluoromethane	ND	1.0	139	161	14.7				70 - 130	30	I
Ethylbenzene	ND	1.0	96	115	18.0				70 - 130	30	
Hexachlorobutadiene	ND	0.40	105	118	11.7				70 - 130	30	
Isopropylbenzene	ND	1.0	100	118	16.5				70 - 130	30	
m&p-Xylene	ND	1.0	96	115	18.0				70 - 130	30	
Methyl ethyl ketone	ND	5.0	80	107	28.9				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	93	110	16.7				70 - 130	30	
Methylene chloride	ND	1.0	94	113	18.4				70 - 130	30	
Naphthalene	ND	1.0	99	113	13.2				70 - 130	30	
n-Butylbenzene	ND	1.0	106	124	15.7				70 - 130	30	
n-Propylbenzene	ND	1.0	101	118	15.5				70 - 130	30	
o-Xylene	ND	1.0	95	113	17.3				70 - 130	30	
p-Isopropyltoluene	ND	1.0	102	118	14.5				70 - 130	30	
sec-Butylbenzene	ND	1.0	107	126	16.3				70 - 130	30	
Styrene	ND	1.0	94	112	17.5				70 - 130	30	
tert-Butylbenzene	ND	1.0	101	119	16.4				70 - 130	30	
Tetrachloroethene	ND	1.0	96	112	15.4				70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	82	94	13.6				70 - 130	30	
Toluene	ND	1.0	95	112	16.4				70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	103	124	18.5				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	92	108	16.0				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	95	112	16.4				70 - 130	30	
Trichloroethene	ND	1.0	99	114	14.1				70 - 130	30	
Trichlorofluoromethane	ND	1.0	110	127	14.3				70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	90	105	15.4				70 - 130	30	
Vinyl chloride	ND	1.0	101	119	16.4				70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	98	97	1.0				70 - 130	30	
% Bromofluorobenzene	100	%	101	102	1.0				70 - 130	30	
% Dibromofluoromethane	90	%	94	92	2.2				70 - 130	30	
% Toluene-d8	97	%	99	99	0.0				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

QA/QC Data

SDG I.D.: GCB96386

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
November 19, 2018

Monday, November 19, 2018
Criteria: CT: GWP, SWP
State: CT

Sample Criteria Exceedances Report

GCB96386 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB96386	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	1.2	0.05	0.077	0.077	ug/L
CB96386	$8100CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	0.42	0.05	0.3	0.3	ug/L
CB96386	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB96386	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB96386	$8260GWR	Benzene	CT / RSR GWPC (ug/l) / Volatiles	40	7.0	1	1	ug/L
CB96386	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	0.32	0.068	0.25	0.25	mg/L
CB96386	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	0.32	0.068	0.25	0.25	mg/L
CB96386	NI-WM	Nickel	CT / RSR GWPC (ug/l) / Inorganics	0.138	0.001	0.1	0.1	mg/L
CB96387	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB96387	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB96387	NI-WM	Nickel	CT / RSR GWPC (ug/l) / Inorganics	0.244	0.001	0.1	0.1	mg/L
CB96388	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.28	0.05	0.077	0.077	ug/L
CB96388	$8100CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	1.2	0.05	0.3	0.3	ug/L
CB96390	$8100CTSIMR	Benz(a)anthracene	CT / RSR GWPC (ug/l) / Semivolatiles	0.08	0.05	0.06	0.06	ug/L
CB96390	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.84	0.05	0.077	0.077	ug/L
CB96390	$8100CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	0.74	0.05	0.3	0.3	ug/L
CB96390	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	0.64	0.069	0.25	0.25	mg/L
CB96390	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	0.64	0.069	0.5	0.5	mg/L
CB96390	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	0.64	0.069	0.25	0.25	mg/L
CB96391	$8100CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	1.7	0.05	0.3	0.3	ug/L
CB96391	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.37	0.05	0.077	0.077	ug/L
CB96391	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	0.50	0.067	0.25	0.25	mg/L
CB96391	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	0.50	0.067	0.25	0.25	mg/L
CB96501	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB96501	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Tighe & Bond

Project Location: ROCKVILLE MGP ***Project Number:***

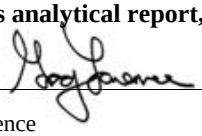
Laboratory Sample ID(s): CB96386-CB96391, CB96501 ***Sampling Date(s):*** 11/12/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8260, 8270, ETPH, 9010/9012

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: SVOASIM Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Monday, November 19, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

CTDEP RCP Laboratory Analysis QA/QC Certification Form - November 2007
Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

November 19, 2018

SDG I.D.: GCB96386

SDG Comments

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet the GWP these compounds are analyzed by GC/ECD to achieve this criteria.

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 11/16/18-1 Jordan Olowu, Greg Danielewski, Chemist 11/16/18

CB96386, CB96387

The samples were distilled in accordance with the method.
The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequencey of one per ten samples.
The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

QC (Batch Specific):

Batch 456521 (CB91971)

CB96386, CB96387

All LCS recoveries were within 90 - 110 with the following exceptions: None.
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL1 11/14/18-1 Jeff Bucko, Chemist 11/14/18

CB96386, CB96387, CB96390, CB96391

The initial calibration (ETPHN06I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 456159 (CB96386)

CB96386, CB96387, CB96390, CB96391

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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SDG I.D.: GCB96386

ETPH Narration

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 11/14/18 08:09 Rick Schweitzer, Chemist 11/14/18

CB96386, CB96387

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Site Specific):

Batch 456228 (CB96387)

CB96386, CB96387

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

BLUE 11/14/18 11:51 Cindy Pearce, Chemist 11/14/18

CB96386, CB96387

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 456186 (CB96754)

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Certification Report

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SDG I.D.: GCB96386

ICP Metals Narration

CB96386, CB96387

All LCS recoveries were within 75 - 125 with the following exceptions: None.

ICPMS Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ICPMS 11/16/18 14:23 Mike Hornak, Chemist 11/16/18

CB96386, CB96387

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following samples did not meet internal standard criteria: None.

QC (Site Specific):

Batch 456474 (CB96386)

CB96386, CB96387

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM05 11/15/18-1 Adam Werner, Chemist 11/15/18

CB96386, CB96390, CB96391

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM05/5_BN_1114):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/1115_03-5_BN_1114):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

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RCP Certification Report

November 19, 2018

SDG I.D.: GCB96386

SVOA Narration

Batch 456158 (CB96386)

CB96386, CB96387, CB96388, CB96389, CB96390, CB96391

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: % Nitrobenzene-d5(28%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 456158 (Samples: CB96386, CB96387, CB96388, CB96389, CB96390, CB96391): -----

The LCSD recovery for one of the surrogates is below the lower range. The other surrogates and all of the target analytes are acceptable. No significant bias is suspected. (% Nitrobenzene-d5)

One of the surrogate recoveries in the blank is below the lower range. A slight low bias is possible. (% Nitrobenzene-d5)

Instrument:

CHEM27 11/14/18-2 Keith Aloisa, Chemist 11/14/18

CB96386, CB96387, CB96388, CB96389, CB96390, CB96391

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM27/27_bnSIM_1026):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/1114_20-27_bnSIM_1026):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 456158 (CB96386)

CB96386, CB96387, CB96388, CB96389, CB96390, CB96391

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: % Nitrobenzene-d5(28%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

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RCP Certification Report

November 19, 2018

SDG I.D.: GCB96386

SVOASIM Narration

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 456271 (Samples: CB96386, CB96501): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (2,2-Dichloropropane, Dichlorodifluoromethane)

QC Batch 456620 (Samples: CB96386, CB96387): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (2,2-Dichloropropane, Dichlorodifluoromethane, Trichlorofluoromethane)

Instrument:

CHEM02 11/13/18-2 Michael Hahn, Chemist 11/13/18

CB96386, CB96501

Initial Calibration Verification (CHEM02/VT-P1112):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.030 (0.05), 2-Hexanone 0.073 (0.1), 4-Methyl-2-pentanone 0.092 (0.1), Acetone 0.041 (0.1), Bromoform 0.092 (0.1), Methyl ethyl ketone 0.057 (0.1), Tetrahydrofuran (THF) 0.041 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/1113_31-VT-P1112):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.237 (0.3), 1,2-Dibromo-3-chloropropane 0.026 (0.05), Acrylonitrile 0.045 (0.05), Bromoform 0.082 (0.1), Tetrahydrofuran (THF) 0.032 (0.05)
The following compounds did not meet minimum response factors: None.

CHEM02 11/13/18-3 Michael Hahn, Chemist 11/13/18

CB96386, CB96387

Initial Calibration Verification (CHEM02/VT-P1112):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.030 (0.05), 2-Hexanone 0.073 (0.1), 4-Methyl-2-pentanone 0.092 (0.1), Acetone 0.041 (0.1), Bromoform 0.092 (0.1), Methyl ethyl ketone 0.057 (0.1), Tetrahydrofuran (THF) 0.041 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/1113_59-VT-P1112):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

November 19, 2018

SDG I.D.: GCB96386

VOA Narration

The following compounds did not meet % deviation criteria: 1,2,3-Trichlorobenzene 32%L (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.249 (0.3), 1,2-Dibromo-3-chloropropane 0.026 (0.05), Acrylonitrile 0.049 (0.05), Bromoform 0.081 (0.1), Tetrahydrofuran (THF) 0.037 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 456271 (CB96501)

CB96386, CB96501

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(139%)
All LCSD recoveries were within 70 - 130 with the following exceptions: 2,2-Dichloropropane(139%), Dichlorodifluoromethane(161%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 456620 (CB96297)

CB96386, CB96387

All LCS recoveries were within 70 - 130 with the following exceptions: 2,2-Dichloropropane(141%), Dichlorodifluoromethane(165%), Trichlorofluoromethane(132%)
All LCSD recoveries were within 70 - 130 with the following exceptions: 2,2-Dichloropropane(143%), Dichlorodifluoromethane(168%), Trichlorofluoromethane(136%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 3.6C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 3.0 Pg of

Data Delivery:
[ ] Fax #:
[X] Email: LEWilley@Tighebond.com

Customer: Tighe + Bond
Address: 213 Court St
Middletown, CT

Project: Rockville MGP
Report to: Lynn Willey
Invoice to: Westfield Office
Phone #:
Fax #:

Project P.O: 14-0755-44B

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: William Champagne Date: 11-12-18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	ETPH	RSR Metals	Total Cyanide	PAHs	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz ( ) oz	40 ml VOA Vial [ ] As is [X] HCl ( ) oz	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ]250ml [ ]500ml [ ]1000ml	PL H2SO4 [ ]250ml [ ]500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (w/thio)
96386	MW-14D	GW	11-12-18	1235	X	X	X	X	X			3	3				1	1	
96387	MW-14S			1025	X	X	X	X	X			3	3				1	1	
96388	MW-26D			255					X				2						
96389	MW-26D(FILTERED)			255					X				2						
96390	MW-30S			420		X			X				3						
96391	MW-30S(FILTERED)	↓	↓	420		X			X				3						
96501	TRIP BLANKS											2							

Relinquished by:	Accepted by:	Date:	Time:
William Champagne	Heather Lavoie	11.13.18	10:52
Heather Lavoie	Kayla Tarkill	11.13.18	1140

Comments, Special Requirements or Regulations:

DAS Pricing Quote: TI012517BA

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[X] RCP Cert
[ ] GW Protection
[X] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[X] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 17
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