Norwalk Housing Authority

WATER SAMPLING REPORT

Washington Village Apartments
Building 200
Norwalk, CT

BigEast ENVIRONMENTAL

SUBJECT SITE: Washington Village Apartments
Building 200
Norwalk, CT

CLIENT: Norwalk Housing Authority
Tom Ivers
24 ½ Monroe Street
Norwalk, CT 06854

INPSPECTION DATE: July 18, 2018

BIG EAST PROJECT #: 18369.001

Introduction

Big East Environmental, LLC performed water sampling at the above referenced subject site on July 18, 2018. The subject property is a multi-family, residential apartment structure. The basement of Building 200 had recently become flooded with ground and rain water. Standing water from within the basement was collected for laboratory analysis.

Methods

Big East Project Manager Joseph D'Urso, sampled the standing water via grab sampling methods. Water samples were collected into laboratory supplied glassware. Samples were analyzed for volatile organic compounds (EPA 8260), semi-volatile organic compounds (EPA 8270), extractable total petroleum hydrocarbons, RCRA 8 metals, pesticides (8081), PCBs (8082), and bacteria. All samples were shipped under chain of custody protocol to Phoenix Environmental Laboratories. The laboratory report is attached.

Findings

ANALYTE	RESULTS mg/L	REGULATORY CRITERIA (CT DEEP GWPC)
Silver	<0.001 mg/L	0.036 mg/L
Arsenic	<0.004 mg/L	0.05 mg/L
Barium	0.058 mg/L	*1.0 mg/L*
Cadmium	<0.001 mg/L	*0.005 mg/L*
Chromium	0.002 mg/L	0.05 mg/L
Mercury	<0.0002 mg/L	0.002 mg/L
Lead	0.006 mg/L	0.015 mg/L
Selenium	<0.010 mg/L	0.05 mg/L
Fecal Coliform	**63 MPN/100mls**	0.0
ETPH	NONE DETECTED	0.25
PCBs	NONE DETECTED	0.0005
Volatile Organic	Chloroform – 0.0011	0.006

Compounds		
Semi-Volatile Organic Compounds	NONE DETECTED	-
Semi-Volatile Organic Compounds (SIM)	**Bis(2-ethylhexyl) phthalate – 0.0025**	0.002

Mg/L – milligrams per liter / parts per million
CT DEEP GWPC – CT Department of Environmental & Energy Protection Groundwater Protection Criteria.

Conclusions

- Fecal coliform bacteria were present.
- SVOC Bis(2-ethylhexyl) phthalate was found above the CT DEEP's GWPC.

Please feel free to contact us if you have any questions regarding this investigation.

Sincerely,

Steve DiNapoli

Steve DiNapoli, LEED AP, CMC
Big East Environemntal

PHOENIX
Environmental Laboratories, Inc.

Wednesday, July 25, 2018

Attn: Mr. Steve Dinapoli
Big East Environmental LLC
68 Water Street, Unit F
Norwalk, CT 06854

Project ID: 18369
Sample ID#s: CA93313

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

July 25, 2018

FOR: Attn: Mr. Steve Dinapoli
Big East Environmental LLC
68 Water Street, Unit F
Norwalk, CT 06854

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		07/18/18	11:28
Location Code:	BIG-EAST	Received by:	SW	07/18/18	16:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA93313
Phoenix ID: CA93313

Project ID: 18369
Client ID: BW 01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	07/21/18	CPP	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	07/21/18	CPP	SW6010C
Barium	0.058	0.002	mg/L	1	07/21/18	CPP	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	07/21/18	CPP	SW6010C
Chromium	0.002	0.001	mg/L	1	07/21/18	CPP	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	07/19/18	RS	SW7470A
Lead	0.006	0.002	mg/L	1	07/21/18	CPP	SW6010C
Selenium	< 0.010	0.010	mg/L	1	07/21/18	CPP	SW6010C
Fecal Coliforms MPN	63	10	MPN/100 mls	1	07/18/18 18:55	AJ/AJ	Colilert-18
Extraction of CT ETPH	Completed				07/19/18	P/R	SW3510C/SW3520C
Mercury Digestion	Completed				07/19/18	I/I	SW7470A
PCB Extraction	Completed				07/18/18	N	SW3510C
Extraction for Pest (2 Liter)	Completed				07/18/18	N	SW3510C
Semi-Volatile Extraction	Completed				07/19/18	P/R	SW3520C
Total Metals Digestion	Completed				07/19/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	07/20/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	07/20/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	07/20/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	0.094	ug/L	1	07/19/18	AW	SW8082A
PCB-1221	ND	0.094	ug/L	1	07/19/18	AW	SW8082A
PCB-1232	ND	0.094	ug/L	1	07/19/18	AW	SW8082A
PCB-1242	ND	0.094	ug/L	1	07/19/18	AW	SW8082A
PCB-1248	ND	0.094	ug/L	1	07/19/18	AW	SW8082A

Project ID: 18369
Client ID: BW 01

Phoenix I.D.: CA93313

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.094	ug/L	1	07/19/18	AW	SW8082A
PCB-1260	ND	0.094	ug/L	1	07/19/18	AW	SW8082A
PCB-1262	ND	0.094	ug/L	1	07/19/18	AW	SW8082A
PCB-1268	ND	0.094	ug/L	1	07/19/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	69		%	1	07/19/18	AW	30 - 150 %
% TCMX	62		%	1	07/19/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	0.047	ug/L	1	07/19/18	CW	SW8081B
4,4' -DDE	ND	0.047	ug/L	1	07/19/18	CW	SW8081B
4,4' -DDT	ND	0.047	ug/L	1	07/19/18	CW	SW8081B
a-BHC	ND	0.024	ug/L	1	07/19/18	CW	SW8081B
Alachlor	ND	0.071	ug/L	1	07/19/18	CW	SW8081B
Aldrin	ND	0.001	ug/L	1	07/19/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	07/19/18	CW	SW8081B
Chlordane	ND	0.28	ug/L	1	07/19/18	CW	SW8081B
d-BHC	ND	0.024	ug/L	1	07/19/18	CW	SW8081B
Dieldrin	ND	0.001	ug/L	1	07/19/18	CW	SW8081B
Endosulfan I	ND	0.047	ug/L	1	07/19/18	CW	SW8081B
Endosulfan II	ND	0.047	ug/L	1	07/19/18	CW	SW8081B
Endosulfan Sulfate	ND	0.047	ug/L	1	07/19/18	CW	SW8081B
Endrin	ND	0.047	ug/L	1	07/19/18	CW	SW8081B
Endrin Aldehyde	ND	0.047	ug/L	1	07/19/18	CW	SW8081B
Endrin ketone	ND	0.047	ug/L	1	07/19/18	CW	SW8081B
g-BHC (Lindane)	ND	0.024	ug/L	1	07/19/18	CW	SW8081B
Heptachlor	ND	0.024	ug/L	1	07/19/18	CW	SW8081B
Heptachlor epoxide	ND	0.024	ug/L	1	07/19/18	CW	SW8081B
Methoxychlor	ND	0.094	ug/L	1	07/19/18	CW	SW8081B
Toxaphene	ND	0.94	ug/L	1	07/19/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	86		%	1	07/19/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	72		%	1	07/19/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	07/19/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	07/19/18	MH	SW8260C

Project ID: 18369
Client ID: BW 01

Phoenix I.D.: CA93313

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	07/19/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	07/19/18	MH	SW8260C
Acetone	ND	25	ug/L	1	07/19/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	07/19/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	07/19/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	07/19/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Chloroform	1.1	1.0	ug/L	1	07/19/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	07/19/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	07/19/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	07/19/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	07/19/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	07/19/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	07/19/18	MH	SW8260C

Project ID: 18369
Client ID: BW 01

Phoenix I.D.: CA93313

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	07/19/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	07/19/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	07/19/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	07/19/18	MH	70 - 130 %
% Bromofluorobenzene	89		%	1	07/19/18	MH	70 - 130 %
% Dibromofluoromethane	93		%	1	07/19/18	MH	70 - 130 %
% Toluene-d8	95		%	1	07/19/18	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	07/24/18	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	07/24/18	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	07/24/18	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	07/24/18	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
Acetophenone	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
Aniline	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
Benzidine	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
Benzoic acid	ND	47	ug/L	1	07/24/18	KCA	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D
Carbazole	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D

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Phoenix I.D.: CA93313

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Diethyl phthalate	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D	
Dimethylphthalate	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D	
Di-n-butylphthalate	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D	
Di-n-octylphthalate	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D	
Isophorone	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D	
N-Nitrosodimethylamine	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	07/24/18	KCA	SW8270D	
Phenol	ND	0.94	ug/L	1	07/24/18	KCA	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	105		%	1	07/24/18	KCA	15 - 110 %	
% 2-Fluorobiphenyl	79		%	1	07/24/18	KCA	30 - 130 %	
% 2-Fluorophenol	59		%	1	07/24/18	KCA	15 - 110 %	
% Nitrobenzene-d5	74		%	1	07/24/18	KCA	30 - 130 %	
% Phenol-d5	67		%	1	07/24/18	KCA	15 - 110 %	
% Terphenyl-d14	72		%	1	07/24/18	KCA	30 - 130 %	
Semivolatiles (SIM)								
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	07/24/18	HM	SW8270D (SIM)	
2-Methylnaphthalene	ND	0.94	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Acenaphthene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Acenaphthylene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Anthracene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Benz(a)anthracene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.19	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	2.5	0.47	ug/L	1	07/24/18	HM	SW8270D (SIM)	B*
Chrysene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Dibenzofuran	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Fluoranthene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Fluorene	ND	0.09	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Hexachlorobenzene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.47	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Hexachloroethane	ND	0.47	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Naphthalene	ND	0.09	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Nitrobenzene	ND	0.09	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Pentachloronitrobenzene	ND	0.09	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Pentachlorophenol	ND	0.75	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Phenanthrene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Pyrene	ND	0.05	ug/L	1	07/24/18	HM	SW8270D (SIM)	
Pyridine	ND	0.47	ug/L	1	07/24/18	HM	SW8270D (SIM)	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	122		%	1	07/24/18	HM	15 - 110 %	3
% 2-Fluorobiphenyl	78		%	1	07/24/18	HM	30 - 130 %	
% 2-Fluorophenol	79		%	1	07/24/18	HM	15 - 110 %	

Ver 1

Project ID: 18369
Client ID: BW 01

Phoenix I.D.: CA93313

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	84		%	1	07/24/18	HM	30 - 130 %
% Phenol-d5	82		%	1	07/24/18	HM	15 - 110 %
% Terphenyl-d14	96		%	1	07/24/18	HM	30 - 130 %

3 = This parameter exceeds laboratory specified limits.
B* = Present in blank, a bias is possible.

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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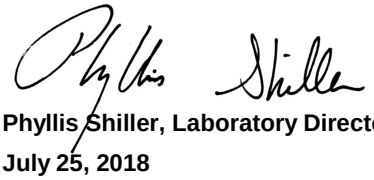

Phyllis Shiller, Laboratory Director
July 25, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
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QA/QC Report

July 25, 2018

QA/QC Data

SDG I.D.: GCA93313

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 439512 (mg/L), QC Sample No: CA92577 (CA93313)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	88.3			78.1			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 439613 (mg/L), QC Sample No: CA92857 (CA93313)													
ICP Metals - Aqueous													
Arsenic	BRL	0.004	<0.004	<0.004	NC	104			101			75 - 125	20
Barium	BRL	0.002	0.027	0.027	0	106			105			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	105			102			75 - 125	20
Chromium	BRL	0.001	0.003	0.002	NC	103			99.5			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	106			102			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	102			98.9			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	98.4			98.6			75 - 125	20

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QA/QC Report

July 25, 2018

QA/QC Data

SDG I.D.: GCA93313

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 439422 (ug/L), QC Sample No: CA92311 (CA93313)											
Polychlorinated Biphenyls - Ground Water											
PCB-1016	ND	0.050	113	118	4.3				40 - 140	20	
PCB-1221	ND	0.050							40 - 140	20	
PCB-1232	ND	0.050							40 - 140	20	
PCB-1242	ND	0.050							40 - 140	20	
PCB-1248	ND	0.050							40 - 140	20	
PCB-1254	ND	0.050							40 - 140	20	
PCB-1260	ND	0.050	130	119	8.8				40 - 140	20	
PCB-1262	ND	0.050							40 - 140	20	
PCB-1268	ND	0.050							40 - 140	20	
% DCBP (Surrogate Rec)	93	%	120	97	21.2				30 - 150	20	r
% TCMX (Surrogate Rec)	78	%	98	101	3.0				30 - 150	20	
Comment:											
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.											
QA/QC Batch 439758 (ug/L), QC Sample No: CA92523 (CA93313)											
Volatiles - Ground Water											
1,1,1,2-Tetrachloroethane	ND	1.0	98	93	5.2				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	97	91	6.4				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	94	89	5.5				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	89	85	4.6				70 - 130	30	
1,1-Dichloroethane	ND	1.0	92	85	7.9				70 - 130	30	
1,1-Dichloroethene	ND	1.0	99	93	6.3				70 - 130	30	
1,1-Dichloropropene	ND	1.0	100	96	4.1				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	88	89	1.1				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	90	84	6.9				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	92	88	4.4				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	100	94	6.2				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	93	87	6.7				70 - 130	30	
1,2-Dibromoethane	ND	1.0	91	89	2.2				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	94	89	5.5				70 - 130	30	
1,2-Dichloroethane	ND	1.0	92	89	3.3				70 - 130	30	
1,2-Dichloropropane	ND	1.0	92	88	4.4				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	101	95	6.1				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	96	90	6.5				70 - 130	30	
1,3-Dichloropropane	ND	1.0	91	87	4.5				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	94	89	5.5				70 - 130	30	
2,2-Dichloropropane	ND	1.0	103	96	7.0				70 - 130	30	
2-Chlorotoluene	ND	1.0	98	94	4.2				70 - 130	30	
2-Hexanone	ND	5.0	91	88	3.4				70 - 130	30	
2-Isopropyltoluene	ND	1.0	106	100	5.8				70 - 130	30	
4-Chlorotoluene	ND	1.0	97	92	5.3				70 - 130	30	

QA/QC Data

SDG I.D.: GCA93313

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4-Methyl-2-pentanone	ND	5.0	92	90	2.2				70 - 130	30
Acetone	ND	5.0	86	81	6.0				70 - 130	30
Acrylonitrile	ND	5.0	90	84	6.9				70 - 130	30
Benzene	ND	0.70	95	90	5.4				70 - 130	30
Bromobenzene	ND	1.0	96	91	5.3				70 - 130	30
Bromochloromethane	ND	1.0	91	86	5.6				70 - 130	30
Bromodichloromethane	ND	0.50	97	91	6.4				70 - 130	30
Bromoform	ND	1.0	101	97	4.0				70 - 130	30
Bromomethane	ND	1.0	131	122	7.1				70 - 130	30
Carbon Disulfide	ND	1.0	106	100	5.8				70 - 130	30
Carbon tetrachloride	ND	1.0	101	97	4.0				70 - 130	30
Chlorobenzene	ND	1.0	96	90	6.5				70 - 130	30
Chloroethane	ND	1.0	111	103	7.5				70 - 130	30
Chloroform	ND	1.0	91	86	5.6				70 - 130	30
Chloromethane	ND	1.0	99	92	7.3				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	93	87	6.7				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	95	90	5.4				70 - 130	30
Dibromochloromethane	ND	0.50	103	98	5.0				70 - 130	30
Dibromomethane	ND	1.0	91	87	4.5				70 - 130	30
Dichlorodifluoromethane	ND	1.0	121	115	5.1				70 - 130	30
Ethylbenzene	ND	1.0	99	94	5.2				70 - 130	30
Hexachlorobutadiene	ND	0.40	103	97	6.0				70 - 130	30
Isopropylbenzene	ND	1.0	101	96	5.1				70 - 130	30
m&p-Xylene	ND	1.0	99	93	6.3				70 - 130	30
Methyl ethyl ketone	ND	5.0	91	84	8.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	95	87	8.8				70 - 130	30
Methylene chloride	ND	1.0	93	86	7.8				70 - 130	30
Naphthalene	ND	1.0	89	90	1.1				70 - 130	30
n-Butylbenzene	ND	1.0	103	96	7.0				70 - 130	30
n-Propylbenzene	ND	1.0	101	95	6.1				70 - 130	30
o-Xylene	ND	1.0	99	94	5.2				70 - 130	30
p-Isopropyltoluene	ND	1.0	103	96	7.0				70 - 130	30
sec-Butylbenzene	ND	1.0	104	98	5.9				70 - 130	30
Styrene	ND	1.0	98	93	5.2				70 - 130	30
tert-Butylbenzene	ND	1.0	102	95	7.1				70 - 130	30
Tetrachloroethene	ND	1.0	101	97	4.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	87	80	8.4				70 - 130	30
Toluene	ND	1.0	97	91	6.4				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	100	92	8.3				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	90	87	3.4				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	101	97	4.0				70 - 130	30
Trichloroethene	ND	1.0	98	95	3.1				70 - 130	30
Trichlorofluoromethane	ND	1.0	106	99	6.8				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	108	101	6.7				70 - 130	30
Vinyl chloride	ND	1.0	108	102	5.7				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	97	2.0				70 - 130	30
% Bromofluorobenzene	90	%	97	97	0.0				70 - 130	30
% Dibromofluoromethane	96	%	95	95	0.0				70 - 130	30
% Toluene-d8	97	%	97	98	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 Data

SDG I.D.: GCA93313

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 439618 (ug/L), QC Sample No: CA93064 (CA93313)											
Semivolatiles (SIM) - Ground Water											
1,2,4,5-Tetrachlorobenzene	ND	0.50	72	71	1.4				30 - 130	20	
2-Methylnaphthalene	ND	0.02	73	75	2.7				30 - 130	20	
Acenaphthene	ND	0.02	90	95	5.4				30 - 130	20	
Acenaphthylene	ND	0.02	81	85	4.8				30 - 130	20	
Anthracene	ND	0.02	85	99	15.2				30 - 130	20	
Benz(a)anthracene	ND	0.02	83	98	16.6				30 - 130	20	
Benzo(a)pyrene	ND	0.02	87	94	7.7				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	94	111	16.6				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	80	94	16.1				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	92	107	15.1				30 - 130	20	
Bis(2-ethylhexyl)phthalate	0.42	0.10	107	114	6.3				30 - 130	20	
Chrysene	ND	0.02	90	102	12.5				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	92	119	25.6				30 - 130	20	r
Dibenzofuran	ND	0.05	84	91	8.0				30 - 130	20	
Fluoranthene	ND	0.02	82	101	20.8				30 - 130	20	r
Fluorene	ND	0.02	89	97	8.6				30 - 130	20	
Hexachlorobenzene	ND	0.02	83	97	15.6				30 - 130	20	
Hexachlorobutadiene	ND	0.05	70	59	17.1				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.05	51	50	2.0				30 - 130	20	
Hexachloroethane	ND	0.05	63	53	17.2				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	83	106	24.3				30 - 130	20	r
Naphthalene	ND	0.02	69	64	7.5				30 - 130	20	
Nitrobenzene	ND	0.05	81	73	10.4				30 - 130	20	
Pentachloronitrobenzene	ND	0.10	101	114	12.1				30 - 130	20	
Pentachlorophenol	ND	0.20	161	186	14.4				30 - 130	20	l
Phenanthrene	ND	0.02	79	92	15.2				30 - 130	20	
Pyrene	ND	0.02	88	104	16.7				30 - 130	20	
Pyridine	ND	0.50	67	48	33.0				30 - 130	20	r
% 2,4,6-Tribromophenol	110	%	116	139	18.0				15 - 110	20	l
% 2-Fluorobiphenyl	82	%	82	87	5.9				30 - 130	20	
% 2-Fluorophenol	84	%	63	50	23.0				15 - 110	20	r
% Nitrobenzene-d5	89	%	69	74	7.0				30 - 130	20	
% Phenol-d5	90	%	67	60	11.0				15 - 110	20	
% Terphenyl-d14	95	%	83	106	24.3				30 - 130	20	r
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 439618 (), QC Sample No: CA93064 (CA93313)											
Semivolatiles											
1,2,4-Trichlorobenzene			68	46	38.6				30 - 130	30	r
1,2-Dichlorobenzene			61	39	44.0				30 - 130	30	r
1,2-Diphenylhydrazine			82	70	15.8				30 - 130	30	
1,3-Dichlorobenzene			62	37	50.5				30 - 130	30	r
1,4-Dichlorobenzene			65	37	54.9				30 - 130	30	r
2,4,5-Trichlorophenol			86	73	16.4				30 - 130	30	
2,4,6-Trichlorophenol			84	66	24.0				30 - 130	30	
2,4-Dichlorophenol			76	60	23.5				30 - 130	30	
2,4-Dimethylphenol			77	61	23.2				30 - 130	30	
2,4-Dinitrophenol			116	103	11.9				30 - 130	30	
2,4-Dinitrotoluene			86	74	15.0				30 - 130	30	

QA/QC Data

SDG I.D.: GCA93313

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,6-Dinitrotoluene			82	68	18.7				30 - 130	30	
2-Chloronaphthalene			78	61	24.5				30 - 130	30	
2-Chlorophenol			64	42	41.5				30 - 130	30	r
2-Methylphenol (o-cresol)			75	55	30.8				30 - 130	30	r
2-Nitroaniline			110	89	21.1				30 - 130	30	
2-Nitrophenol			89	61	37.3				30 - 130	30	r
3&4-Methylphenol (m&p-cresol)			74	55	29.5				30 - 130	30	
3,3'-Dichlorobenzidine			81	57	34.8				30 - 130	30	r
3-Nitroaniline			92	80	14.0				30 - 130	30	
4,6-Dinitro-2-methylphenol			114	100	13.1				30 - 130	30	
4-Bromophenyl phenyl ether			75	63	17.4				30 - 130	30	
4-Chloro-3-methylphenol			89	77	14.5				30 - 130	30	
4-Chloroaniline			92	75	20.4				30 - 130	30	
4-Chlorophenyl phenyl ether			78	62	22.9				30 - 130	30	
4-Nitroaniline			91	76	18.0				30 - 130	30	
4-Nitrophenol			105	92	13.2				30 - 130	30	
Acetophenone			70	53	27.6				30 - 130	30	
Aniline			70	43	47.8				30 - 130	30	r
Benzidine			119	<10	NC				30 - 130	30	l
Benzoic acid			124	121	2.4				30 - 130	30	
Benzyl butyl phthalate			82	70	15.8				30 - 130	30	
Bis(2-chloroethoxy)methane			81	62	26.6				30 - 130	30	
Bis(2-chloroethyl)ether			64	41	43.8				30 - 130	30	r
Bis(2-chloroisopropyl)ether			61	41	39.2				30 - 130	30	r
Carbazole			84	73	14.0				30 - 130	30	
Diethyl phthalate			87	73	17.5				30 - 130	30	
Dimethylphthalate			80	70	13.3				30 - 130	30	
Di-n-butylphthalate			90	76	16.9				30 - 130	30	
Di-n-octylphthalate			94	79	17.3				30 - 130	30	
Isophorone			78	62	22.9				30 - 130	30	
N-Nitrosodimethylamine			61	35	54.2				30 - 130	30	r
N-Nitrosodi-n-propylamine			81	65	21.9				30 - 130	30	
N-Nitrosodiphenylamine			74	65	12.9				30 - 130	30	
Phenol			63	41	42.3				30 - 130	30	r
% 2,4,6-Tribromophenol			102	85	18.2				30 - 130	30	
% 2-Fluorobiphenyl			75	60	22.2				30 - 130	30	
% 2-Fluorophenol			52	29	56.8				30 - 130	30	l,r
% Nitrobenzene-d5			73	51	35.5				30 - 130	30	r
% Phenol-d5			63	40	44.7				30 - 130	30	r
% Terphenyl-d14			83	72	14.2				30 - 130	30	

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 439487 (ug/L), QC Sample No: CA93313 (CA93313)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	92	92	0.0				40 - 140	20	
4,4' -DDE	ND	0.003	92	90	2.2				40 - 140	20	
4,4' -DDT	ND	0.003	94	95	1.1				40 - 140	20	
a-BHC	ND	0.002	82	81	1.2				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	88	86	2.3				40 - 140	20	
b-BHC	ND	0.002	92	91	1.1				40 - 140	20	

QA/QC Data

SDG I.D.: GCA93313

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chlordane	ND	0.050	91	90	1.1				40 - 140	20	
d-BHC	ND	0.005	75	81	7.7				40 - 140	20	
Dieldrin	ND	0.002	91	93	2.2				40 - 140	20	
Endosulfan I	ND	0.005	102	99	3.0				40 - 140	20	
Endosulfan II	ND	0.005	98	100	2.0				40 - 140	20	
Endosulfan sulfate	ND	0.005	127	116	9.1				40 - 140	20	
Endrin	ND	0.005	102	98	4.0				40 - 140	20	
Endrin aldehyde	ND	0.005	95	96	1.0				40 - 140	20	
Endrin ketone	ND	0.005	102	105	2.9				40 - 140	20	
g-BHC	ND	0.002	85	84	1.2				40 - 140	20	
Heptachlor	ND	0.005	91	91	0.0				40 - 140	20	
Heptachlor epoxide	ND	0.005	91	91	0.0				40 - 140	20	
Methoxychlor	ND	0.005	102	102	0.0				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	97	%	99	101	2.0				30 - 150	20	
% TCMX	76	%	86	81	6.0				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 439620 (mg/L), QC Sample No: CA93313 (CA93313)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	65	92	34.4				60 - 120	30	r
% n-Pentacosane	79	%	69	93	29.6				50 - 150	20	r

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.

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
July 25, 2018

Wednesday, July 25, 2018

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCA93313 - BIG-EAST

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 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.

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

Analysis Comments

July 25, 2018 SDG I.D.: GCA93313

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

SVOA Narration

CHEM28 07/24/18-1: CA93313

The following Initial Calibration compounds did not meet RSD% criteria: 2,4-Dinitrophenol 37% (20%), 4,6-Dinitro-2-methylphenol 36% (20%), Benzidine 24% (20%), Benzoic acid 26% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Benzoic acid 92%H (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: Benzoic acid 92%H (40%)

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

SVOASIM Narration

CHEM04 07/23/18-2: CA93313

The following Initial Calibration compounds did not meet RSD% criteria: % 2,4,6-Tribromophenol 35% (20%), % 2-Fluorophenol 27% (20%), Hexachlorocyclopentadiene 32% (20%), Pentachloronitrobenzene 24% (20%), Pentachlorophenol 53% (20%), Pyridine 33% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: Pentachlorophenol 53% (40%)
The following Initial Calibration compounds did not meet recommended response factors: Hexachloroethane 0.277 (0.3), Pentachlorophenol 0.041 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Hexachlorocyclopentadiene 44%H (30%), Pentachlorophenol 46%H (30%), Pyridine 39%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: Hexachlorocyclopentadiene 44%H (40%), Pentachlorophenol 46%H (40%)
The following Continuing Calibration compounds did not meet recommended response factors: Hexachloroethane 0.292 (0.3)
The following Continuing Calibration compounds did not meet minimum response factors: None.

VOA Narration

CHEM02 07/19/18-1: CA93313

The following Initial Calibration compounds did not meet RSD% criteria: Bromomethane 24% (20%), trans-1,4-dichloro-2-butene 23% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.033 (0.05), 2-Hexanone 0.088 (0.1), Acetone 0.039 (0.1), Bromoform 0.080 (0.1), Methyl ethyl ketone 0.075 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.029 (0.05), Bromoform 0.079 (0.1), Tetrahydrofuran (THF) 0.040 (0.05)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

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

CHAIN OF CUSTODY RECORD

Temp 4.2c Pg of

PHOENIX Environmental Laboratories, Inc.

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Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☐ Email:

Customer: Big East Environmental
Address: 68 Water St. Unit F.
S. Norwalk, CT 06854

Project: 18369
Report to: Steve DiNapoli
Invoice to: Steve DiNapoli

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature ____ Date: ____

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	SVOCs	ETPH	RCRA 8	Pesticides	PCBs	Bacteria*				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		
93313	BW01	GW	07/18/18	11:28	X	X	X	X	X	X	X								2	4			1			1		

Relinquished by:	Accepted by:	Date:	Time:
Joseph M. O'[illegible]	[illegible]	07/18/18	12:27
[illegible]	Kuepa [illegible] Bunce	7-18-18	16:20

Comments, Special Requirements or Regulations:
+Fecal per Steve @ Big East SW

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

State where samples were collected: CT

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

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

* SURCHARGE APPLIES