Wednesday, November 13, 2019

Attn: Bill Simpson
EPS of Vermont
532 State Fair Blvd
Syracuse, NY 13204

Project ID: **N 19464**
SDG ID: **GCE53952**
Sample ID#s: **CE53952**

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 are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

November 13, 2019

SDG I.D.: GCE53952

Project ID: N 19464

Client Id	Lab Id	Matrix
CISTERN WATER	CE53952	WASTE WATER

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 13, 2019

FOR: Attn: Bill Simpson
EPS of Vermont
532 State Fair Blvd
Syracuse, NY 13204

Sample Information		Custody Information		Date	Time
Matrix:	WASTE WATER	Collected by:		11/04/19	13:23
Location Code:	EP&SSYRC	Received by:	CP	11/05/19	11:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	43105N				

Laboratory Data

SDG ID: GCE53952
Phoenix ID: CE53952

Project ID: N 19464
Client ID: CISTERN WATER

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Flash Point	>200	200	Degree F	1	11/07/19	BJA	1010/CH7/ASTMD92	
Ignitability	Passed	140	degree F	1	11/07/19	BJA	SW846-Ignit	1
Semi-Volatile Extraction	Completed				11/05/19	P/AK	E625.1	
Volatiles								
1,1,1,2-Tetrachloroethane	< 20	20	ug/L	20	11/05/19	MH	E624	
1,1,1-Trichloroethane	< 20	20	ug/L	20	11/05/19	MH	E624	
1,1,2,2-Tetrachloroethane	< 10	10	ug/L	20	11/05/19	MH	E624	
1,1,2-Trichloroethane	< 20	20	ug/L	20	11/05/19	MH	E624	
1,1-Dichloroethane	< 20	20	ug/L	20	11/05/19	MH	E624	
1,1-Dichloroethene	< 20	20	ug/L	20	11/05/19	MH	E624	
1,1-Dichloropropene	< 20	20	ug/L	20	11/05/19	MH	E624	
1,2,3-Trichlorobenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
1,2,3-Trichloropropane	< 20	20	ug/L	20	11/05/19	MH	E624	
1,2,4-Trichlorobenzene	22	20	ug/L	20	11/05/19	MH	E624	
1,2,4-Trimethylbenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
1,2-Dibromo-3-chloropropane	< 20	20	ug/L	20	11/05/19	MH	E624	
1,2-Dibromoethane	< 20	20	ug/L	20	11/05/19	MH	E624	
1,2-Dichlorobenzene	200	20	ug/L	20	11/05/19	MH	E624	
1,2-Dichloroethane	< 12	12	ug/L	20	11/05/19	MH	E624	
1,2-Dichloropropane	< 20	20	ug/L	20	11/05/19	MH	E624	
1,3,5-Trimethylbenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
1,3-Dichlorobenzene	220	20	ug/L	20	11/05/19	MH	E624	
1,3-Dichloropropane	< 20	20	ug/L	20	11/05/19	MH	E624	
1,4-Dichlorobenzene	210	20	ug/L	20	11/05/19	MH	E624	
2,2-Dichloropropane	< 20	20	ug/L	20	11/05/19	MH	E624	
2-Chlorotoluene	< 20	20	ug/L	20	11/05/19	MH	E624	
2-Hexanone	< 100	100	ug/L	20	11/05/19	MH	E624	

Project ID: N 19464
Client ID: CISTERN WATER

Phoenix I.D.: CE53952

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
2-Isopropyltoluene	< 20	20	ug/L	20	11/05/19	MH	E624	1
4-Chlorotoluene	< 20	20	ug/L	20	11/05/19	MH	E624	
4-Methyl-2-pentanone	< 100	100	ug/L	20	11/05/19	MH	E624	
Acetone	< 500	500	ug/L	20	11/05/19	MH	E624	
Acrylonitrile	< 20	20	ug/L	20	11/05/19	MH	E624	
Benzene	< 14	14	ug/L	20	11/05/19	MH	E624	
Bromobenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
Bromochloromethane	< 20	20	ug/L	20	11/05/19	MH	E624	
Bromodichloromethane	< 10	10	ug/L	20	11/05/19	MH	E624	
Bromoform	< 20	20	ug/L	20	11/05/19	MH	E624	
Bromomethane	< 20	20	ug/L	20	11/05/19	MH	E624	
Carbon Disulfide	< 100	100	ug/L	20	11/05/19	MH	E624	
Carbon tetrachloride	< 20	20	ug/L	20	11/05/19	MH	E624	
Chlorobenzene	35	20	ug/L	20	11/05/19	MH	E624	
Chloroethane	< 20	20	ug/L	20	11/05/19	MH	E624	
Chloroform	< 20	20	ug/L	20	11/05/19	MH	E624	
Chloromethane	< 20	20	ug/L	20	11/05/19	MH	E624	
cis-1,2-Dichloroethene	15000	1000	ug/L	1000	11/06/19	MH	E624	
cis-1,3-Dichloropropene	< 8.0	8.0	ug/L	20	11/05/19	MH	E624	
Dibromochloromethane	< 10	10	ug/L	20	11/05/19	MH	E624	
Dibromomethane	< 20	20	ug/L	20	11/05/19	MH	E624	
Dichlorodifluoromethane	< 20	20	ug/L	20	11/05/19	MH	E624	
Ethylbenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
Hexachlorobutadiene	< 8.0	8.0	ug/L	20	11/05/19	MH	E624	
Isopropylbenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
m&p-Xylene	< 20	20	ug/L	20	11/05/19	MH	E624	
Methyl ethyl ketone	< 100	100	ug/L	20	11/05/19	MH	E624	
Methyl t-butyl ether (MTBE)	< 20	20	ug/L	20	11/05/19	MH	E624	
Methylene chloride	< 20	20	ug/L	20	11/05/19	MH	E624	
Naphthalene	< 20	20	ug/L	20	11/05/19	MH	E624	
n-Butylbenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
n-Propylbenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
o-Xylene	< 20	20	ug/L	20	11/05/19	MH	E624	
p-Isopropyltoluene	< 20	20	ug/L	20	11/05/19	MH	E624	
sec-Butylbenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
Styrene	< 20	20	ug/L	20	11/05/19	MH	E624	
tert-Butylbenzene	< 20	20	ug/L	20	11/05/19	MH	E624	
Tetrachloroethene	3900	1000	ug/L	1000	11/06/19	MH	E624	
Tetrahydrofuran (THF)	< 50	50	ug/L	20	11/05/19	MH	E624	1
Toluene	< 20	20	ug/L	20	11/05/19	MH	E624	
Total Xylenes	< 20	20	ug/L	20	11/05/19	MH	E624	
trans-1,2-Dichloroethene	31	20	ug/L	20	11/05/19	MH	E624	
trans-1,3-Dichloropropene	< 8.0	8.0	ug/L	20	11/05/19	MH	E624	
trans-1,4-dichloro-2-butene	< 100	100	ug/L	20	11/05/19	MH	E624	
Trichloroethene	1200	1000	ug/L	1000	11/06/19	MH	E624	
Trichlorofluoromethane	< 20	20	ug/L	20	11/05/19	MH	E624	
Trichlorotrifluoroethane	< 20	20	ug/L	20	11/05/19	MH	E624	
Vinyl chloride	< 20	20	ug/L	20	11/05/19	MH	E624	

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4 (20x)	100		%	20	11/05/19	MH	70 - 130 %
% Bromofluorobenzene (20x)	104		%	20	11/05/19	MH	70 - 130 %
% Dibromofluoromethane (20x)	92		%	20	11/05/19	MH	70 - 130 %
% Toluene-d8 (20x)	110		%	20	11/05/19	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (1000x)	95		%	1000	11/06/19	MH	70 - 130 %
% Bromofluorobenzene (1000x)	98		%	1000	11/06/19	MH	70 - 130 %
% Dibromofluoromethane (1000x)	89		%	1000	11/06/19	MH	70 - 130 %
% Toluene-d8 (1000x)	94		%	1000	11/06/19	MH	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
1,2,4-Trichlorobenzene	17	4.7	ug/L	1	11/08/19	WB	E625
1,2-Dichlorobenzene	120	47	ug/L	10	11/09/19	WB	E625
1,2-Diphenylhydrazine	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
1,3-Dichlorobenzene	120	47	ug/L	10	11/09/19	WB	E625
1,4-Dichlorobenzene	120	47	ug/L	10	11/09/19	WB	E625
2,4,5-Trichlorophenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2,4,6-Trichlorophenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2,4-Dichlorophenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2,4-Dimethylphenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2,4-Dinitrophenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2,4-Dinitrotoluene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2,6-Dinitrotoluene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2-Chloronaphthalene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2-Chlorophenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2-Methylnaphthalene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2-Methylphenol (o-cresol)	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2-Nitroaniline	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
2-Nitrophenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
3&4-Methylphenol (m&p-cresol)	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
3,3'-Dichlorobenzidine	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
3-Nitroaniline	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
4,6-Dinitro-2-methylphenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
4-Bromophenyl phenyl ether	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
4-Chloro-3-methylphenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
4-Chloroaniline	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
4-Chlorophenyl phenyl ether	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
4-Nitroaniline	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
4-Nitrophenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Acenaphthene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Acenaphthylene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Acetophenone	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Aniline	< 9.4	9.4	ug/L	1	11/08/19	WB	E625
Anthracene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Benz(a)anthracene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Benzidine	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Benzo(a)pyrene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Benzo(b)fluoranthene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Benzo(ghi)perylene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625
Benzo(k)fluoranthene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625

Project ID: N 19464
Client ID: CISTERN WATER

Phoenix I.D.: CE53952

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Benzoic acid	< 9.4	9.4	ug/L	1	11/08/19	WB	E625	
Benzyl butyl phthalate	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Bis(2-chloroethoxy)methane	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Bis(2-chloroethyl)ether	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Bis(2-chloroisopropyl)ether	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Bis(2-ethylhexyl)phthalate	13	4.7	ug/L	1	11/08/19	WB	E625	
Carbazole	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Chrysene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Dibenz(a,h)anthracene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Dibenzofuran	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Diethyl phthalate	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Dimethylphthalate	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Di-n-butylphthalate	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Di-n-octylphthalate	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Fluoranthene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Fluorene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Hexachlorobenzene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Hexachlorobutadiene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Hexachlorocyclopentadiene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Hexachloroethane	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Indeno(1,2,3-cd)pyrene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Isophorone	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Naphthalene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Nitrobenzene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
N-Nitrosodimethylamine	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
N-Nitrosodi-n-propylamine	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
N-Nitrosodiphenylamine	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Pentachloronitrobenzene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Pentachlorophenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Phenanthrene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Phenol	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Pyrene	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
Pyridine	< 4.7	4.7	ug/L	1	11/08/19	WB	E625	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	73		%	1	11/08/19	WB	15 - 110 %	
% 2-Fluorobiphenyl	57		%	1	11/08/19	WB	30 - 130 %	
% 2-Fluorophenol	32		%	1	11/08/19	WB	15 - 110 %	
% Nitrobenzene-d5	61		%	1	11/08/19	WB	30 - 130 %	
% Phenol-d5	36		%	1	11/08/19	WB	15 - 110 %	
% Terphenyl-d14	23		%	1	11/08/19	WB	30 - 130 %	3
% 2,4,6-Tribromophenol (10x)	Diluted Out		%	10	11/09/19	WB	15 - 110 %	
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	11/09/19	WB	30 - 130 %	
% 2-Fluorophenol (10x)	Diluted Out		%	10	11/09/19	WB	15 - 110 %	
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	11/09/19	WB	30 - 130 %	
% Phenol-d5 (10x)	Diluted Out		%	10	11/09/19	WB	15 - 110 %	
% Terphenyl-d14 (10x)	Diluted Out		%	10	11/09/19	WB	30 - 130 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
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:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

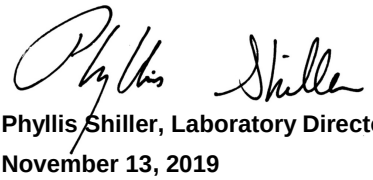
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

CE53952 - The pH in the preserved volatile vial was greater than 2. A negative bias may have occurred.

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
November 13, 2019
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

NY # 11301

QA/QC Report

November 13, 2019

QA/QC Data

SDG I.D.: GCE53952

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 505280 (Degree F), QC Sample No: CE48492 (CE53952)													
Flash Point			>200	>200	NC	103						75 - 125	30

Comment:

Additional criteria matrix spike acceptance range is 75-125%.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

November 13, 2019

QA/QC Data

SDG I.D.: GCE53952

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 504861 (ug/L), QC Sample No: CE54453 (CE53952)											
Semivolatiles - Waste Water											
1,2,4,5-Tetrachlorobenzene	ND	3.5	49	49	0.0	36	42	15.4	30 - 130	20	
1,2,4-Trichlorobenzene	ND	3.5	49	49	0.0	37	46	21.7	30 - 130	20	r
1,2-Dichlorobenzene	ND	1.0	44	44	0.0	37	46	21.7	30 - 130	20	r
1,2-Diphenylhydrazine	ND	1.6	76	42	57.6	66	66	0.0	30 - 130	20	r
1,3-Dichlorobenzene	ND	1.0	42	42	0.0	34	43	23.4	30 - 130	20	r
1,4-Dichlorobenzene	ND	1.0	46	46	0.0	37	46	21.7	30 - 130	20	r
2,4,5-Trichlorophenol	ND	1.0	74	60	20.9	65	65	0.0	30 - 130	20	r
2,4,6-Trichlorophenol	ND	1.0	68	68	0.0	64	64	0.0	30 - 130	20	
2,4-Dichlorophenol	ND	1.0	62	49	23.4	52	56	7.4	30 - 130	20	r
2,4-Dimethylphenol	ND	1.0	66	47	33.6	58	63	8.3	30 - 130	20	r
2,4-Dinitrophenol	ND	1.0	69	72	4.3	76	68	11.1	30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	81	81	0.0	76	73	4.0	30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	78	70	10.8	72	70	2.8	30 - 130	20	
2-Chloronaphthalene	ND	3.5	64	46	32.7	50	55	9.5	30 - 130	20	r
2-Chlorophenol	ND	1.0	51	51	0.0	45	52	14.4	30 - 130	20	
2-Methylnaphthalene	ND	3.5	57	57	0.0	43	53	20.8	30 - 130	20	r
2-Methylphenol (o-cresol)	ND	1.0	64	64	0.0	50	62	21.4	30 - 130	20	r
2-Nitroaniline	ND	3.5	93	93	0.0	89	70	23.9	30 - 130	20	r
2-Nitrophenol	ND	1.0	48	48	0.0	39	46	16.5	30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	67	42	45.9	54	62	13.8	30 - 130	20	r
3,3'-Dichlorobenzidine	ND	5.0	75	75	0.0	36	20	57.1	30 - 130	20	m,r
3-Nitroaniline	ND	5.0	95	95	0.0	82	57	36.0	30 - 130	20	r
4,6-Dinitro-2-methylphenol	ND	1.0	70	74	5.6	76	68	11.1	30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	73	64	13.1	65	65	0.0	30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	75	68	9.8	72	67	7.2	30 - 130	20	
4-Chloroaniline	ND	3.5	67	67	0.0	53	45	16.3	30 - 130	20	
4-Chlorophenyl phenyl ether	ND	1.0	66	57	14.6	55	56	1.8	30 - 130	20	
4-Nitroaniline	ND	5.0	80	65	20.7	73	70	4.2	30 - 130	20	r
4-Nitrophenol	ND	1.0	74	86	15.0	72	68	5.7	15 - 130	20	
Acenaphthene	ND	1.5	70	55	24.0	59	63	6.6	30 - 130	20	r
Acenaphthylene	ND	3.5	64	64	0.0	53	57	7.3	30 - 130	20	
Acetophenone	ND	3.5	52	52	0.0	37	49	27.9	30 - 130	20	r
Aniline	ND	3.5	54	54	0.0	40	45	11.8	30 - 130	20	
Anthracene	ND	1.5	79	71	10.7	70	71	1.4	30 - 130	20	
Benz(a)anthracene	ND	1.5	86	85	1.2	73	75	2.7	30 - 130	20	
Benzidine	ND	4.5	84	84	0.0	12	<10	NC	30 - 130	20	m
Benzo(a)pyrene	ND	1.5	79	79	0.0	66	67	1.5	30 - 130	20	
Benzo(b)fluoranthene	ND	1.5	92	92	0.0	72	71	1.4	30 - 130	20	
Benzo(ghi)perylene	ND	1.5	80	80	0.0	66	66	0.0	30 - 130	20	
Benzo(k)fluoranthene	ND	1.5	86	86	0.0	73	76	4.0	30 - 130	20	
Benzoic acid	ND	10	44	66	40.0	77	62	21.6	30 - 130	20	r

QA/QC Data

SDG I.D.: GCE53952

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzyl butyl phthalate	ND	1.5	104	100	3.9	90	91	1.1	30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.5	66	66	0.0	47	60	24.3	30 - 130	20	r
Bis(2-chloroethyl)ether	ND	1.0	47	47	0.0	39	49	22.7	30 - 130	20	r
Bis(2-chloroisopropyl)ether	ND	1.0	52	52	0.0	42	56	28.6	30 - 130	20	r
Bis(2-ethylhexyl)phthalate	ND	1.5	107	105	1.9	87	89	2.3	30 - 130	20	
Carbazole	ND	5.0	90	90	0.0	87	82	5.9	30 - 130	20	
Chrysene	ND	1.5	85	85	0.0	72	74	2.7	30 - 130	20	
Dibenz(a,h)anthracene	ND	1.5	92	92	0.0	74	73	1.4	30 - 130	20	
Dibenzofuran	ND	3.5	67	57	16.1	58	59	1.7	30 - 130	20	
Diethyl phthalate	ND	1.5	76	70	8.2	69	69	0.0	30 - 130	20	
Dimethylphthalate	ND	1.5	74	64	14.5	66	65	1.5	30 - 130	20	
Di-n-butylphthalate	ND	1.5	92	91	1.1	82	83	1.2	30 - 130	20	
Di-n-octylphthalate	ND	1.5	97	95	2.1	80	81	1.2	30 - 130	20	
Fluoranthene	ND	1.5	80	78	2.5	73	71	2.8	30 - 130	20	
Fluorene	ND	1.5	71	62	13.5	62	63	1.6	30 - 130	20	
Hexachlorobenzene	ND	3.5	68	62	9.2	60	60	0.0	30 - 130	20	
Hexachlorobutadiene	ND	3.5	41	41	0.0	28	38	30.3	30 - 130	20	m,r
Hexachlorocyclopentadiene	ND	3.5	15	15	0.0	11	11	0.0	30 - 130	20	l,m
Hexachloroethane	ND	3.5	45	45	0.0	37	45	19.5	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	3.5	89	89	0.0	71	72	1.4	30 - 130	20	
Isophorone	ND	3.5	62	40	43.1	44	54	20.4	30 - 130	20	r
Naphthalene	ND	1.5	53	53	0.0	40	52	26.1	30 - 130	20	r
Nitrobenzene	ND	3.5	53	53	0.0	40	53	28.0	30 - 130	20	r
N-Nitrosodimethylamine	ND	1.0	50	50	0.0	44	50	12.8	30 - 130	20	
N-Nitrosodi-n-propylamine	ND	3.5	66	43	42.2	46	58	23.1	30 - 130	20	r
N-Nitrosodiphenylamine	ND	3.5	65	65	0.0	63	61	3.2	30 - 130	20	
Pentachloronitrobenzene	ND	5.0	69	62	10.7	56	58	3.5	30 - 130	20	
Pentachlorophenol	ND	3.5	77	77	0.0	85	79	7.3	30 - 130	20	
Phenanthrene	ND	1.5	77	72	6.7	70	71	1.4	30 - 130	20	
Phenol	ND	1.0	56	56	0.0	43	46	6.7	15 - 130	20	
Pyrene	ND	1.5	80	78	2.5	72	73	1.4	30 - 130	20	
Pyridine	ND	5.0	41	41	0.0	34	37	8.5	30 - 130	20	
% 2,4,6-Tribromophenol	75	%	76	69	9.7	79	71	10.7	15 - 110	20	
% 2-Fluorobiphenyl	61	%	59	42	33.7	46	53	14.1	30 - 130	20	r
% 2-Fluorophenol	57	%	41	41	0.0	35	40	13.3	15 - 110	20	
% Nitrobenzene-d5	55	%	50	50	0.0	39	52	28.6	30 - 130	20	r
% Phenol-d5	63	%	51	51	0.0	39	43	9.8	15 - 110	20	
% Terphenyl-d14	75	%	72	70	2.8	64	60	6.5	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 505027 (ug/L), QC Sample No: CE54453 (CE53952 (20X))

Volatiles - Waste Water

1,1,1,2-Tetrachloroethane	ND	1.0	106	110	3.7	95	109	13.7	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	87	86	1.2	94	111	16.6	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	103	114	10.1	87	100	13.9	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	97	109	11.7	87	99	12.9	70 - 130	30	
1,1-Dichloroethane	ND	1.0	88	94	6.6	82	97	16.8	70 - 130	30	
1,1-Dichloroethene	ND	1.0	94	92	2.2	91	103	12.4	70 - 130	30	
1,1-Dichloropropene	ND	1.0	93	77	18.8	93	109	15.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	130	145	10.9	78	103	27.6	70 - 130	30	l
1,2,3-Trichloropropane	ND	1.0	96	107	10.8	79	98	21.5	70 - 130	30	

QA/QC Data

SDG I.D.: GCE53952

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trichlorobenzene	ND	1.0	112	121	7.7	86	107	21.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	93	94	1.1	88	102	14.7	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	116	136	15.9	86	104	18.9	70 - 130	30	l
1,2-Dibromoethane	ND	1.0	99	108	8.7	85	97	13.2	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	99	104	4.9	88	103	15.7	70 - 130	30	
1,2-Dichloroethane	ND	1.0	95	104	9.0	86	98	13.0	70 - 130	30	
1,2-Dichloropropane	ND	1.0	99	104	4.9	91	107	16.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	93	94	1.1	89	103	14.6	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	98	99	1.0	88	102	14.7	70 - 130	30	
1,3-Dichloropropane	ND	1.0	97	106	8.9	84	95	12.3	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	96	98	2.1	87	101	14.9	70 - 130	30	
2,2-Dichloropropane	ND	1.0	98	101	3.0	77	88	13.3	70 - 130	30	
2-Chlorotoluene	ND	1.0	96	96	0.0	90	104	14.4	70 - 130	30	
2-Hexanone	ND	5.0	110	129	15.9	80	97	19.2	70 - 130	30	
2-Isopropyltoluene	ND	1.0	97	100	3.0	93	109	15.8	70 - 130	30	
4-Chlorotoluene	ND	1.0	93	92	1.1	86	101	16.0	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	105	129	20.5	86	101	16.0	70 - 130	30	
Acetone	ND	5.0	66	90	30.8	62	72	14.9	70 - 130	30	l,m,r
Acrylonitrile	ND	5.0	89	106	17.4	73	83	12.8	70 - 130	30	
Benzene	ND	0.70	94	97	3.1	91	106	15.2	70 - 130	30	
Bromobenzene	ND	1.0	99	101	2.0	88	103	15.7	70 - 130	30	
Bromochloromethane	ND	1.0	88	101	13.8	81	89	9.4	70 - 130	30	
Bromodichloromethane	ND	0.50	100	107	6.8	92	108	16.0	70 - 130	30	
Bromoform	ND	1.0	111	124	11.1	91	105	14.3	70 - 130	30	
Bromomethane	ND	1.0	100	100	0.0	89	104	15.5	70 - 130	30	
Carbon Disulfide	ND	1.0	86	87	1.2	88	99	11.8	70 - 130	30	
Carbon tetrachloride	ND	1.0	94	98	4.2	102	117	13.7	70 - 130	30	
Chlorobenzene	ND	1.0	98	100	2.0	88	101	13.8	70 - 130	30	
Chloroethane	ND	1.0	94	92	2.2	89	102	13.6	70 - 130	30	
Chloroform	ND	1.0	83	90	8.1	76	96	23.3	70 - 130	30	
Chloromethane	ND	1.0	91	93	2.2	82	95	14.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	99	108	8.7	89	103	14.6	70 - 130	30	
Dibromochloromethane	ND	0.50	107	120	11.5	96	109	12.7	70 - 130	30	
Dibromomethane	ND	1.0	96	105	9.0	85	97	13.2	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	96	93	3.2	84	95	12.3	70 - 130	30	
Ethylbenzene	ND	1.0	94	96	2.1	90	104	14.4	70 - 130	30	
Hexachlorobutadiene	ND	0.40	105	109	3.7	88	110	22.2	70 - 130	30	
Isopropylbenzene	ND	1.0	91	92	1.1	90	105	15.4	70 - 130	30	
m&p-Xylene	ND	1.0	93	95	2.1	88	102	14.7	70 - 130	30	
Methyl ethyl ketone	ND	5.0	89	88	1.1	71	82	14.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	92	112	19.6	77	100	26.0	70 - 130	30	
Methylene chloride	ND	1.0	84	90	6.9	74	86	15.0	70 - 130	30	
Naphthalene	ND	1.0	130	149	13.6	73	105	36.0	70 - 130	30	l,r
n-Butylbenzene	ND	1.0	92	100	8.3	91	104	13.3	70 - 130	30	
n-Propylbenzene	ND	1.0	95	96	1.0	93	107	14.0	70 - 130	30	
o-Xylene	ND	1.0	97	100	3.0	90	104	14.4	70 - 130	30	
p-Isopropyltoluene	ND	1.0	92	97	5.3	90	103	13.5	70 - 130	30	
sec-Butylbenzene	ND	1.0	94	103	9.1	95	108	12.8	70 - 130	30	
Styrene	ND	1.0	98	100	2.0	87	101	14.9	70 - 130	30	
tert-Butylbenzene	ND	1.0	91	95	4.3	90	103	13.5	70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	70	84	18.2	77	88	13.3	70 - 130	30	
Toluene	ND	1.0	95	98	3.1	92	108	16.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	90	91	1.1	88	100	12.8	70 - 130	30	

QA/QC Data

SDG I.D.: GCE53952

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
trans-1,3-Dichloropropene	ND	0.40	102	113	10.2	89	103	14.6	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	111	124	11.1	80	87	8.4	70 - 130	30
Trichlorofluoromethane	ND	1.0	98	94	4.2	89	99	10.6	70 - 130	30
Trichlorotrifluoroethane	ND	1.0	95	95	0.0	86	97	12.0	70 - 130	30
Vinyl chloride	ND	1.0	90	89	1.1	80	91	12.9	70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	100	104	3.9	101	101	0.0	70 - 130	30
% Bromofluorobenzene	101	%	100	104	3.9	101	100	1.0	70 - 130	30
% Dibromofluoromethane	95	%	89	91	2.2	100	99	1.0	70 - 130	30
% Toluene-d8	91	%	102	102	0.0	105	108	2.8	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 505261 (ug/L), QC Sample No: CE54547 (CE53952 (1000X))

Volatiles - Waste Water

cis-1,2-Dichloroethene	ND	1.0	100	95	5.1				70 - 130	30
Tetrachloroethene	ND	1.0	104	97	7.0				70 - 130	30
Trichloroethene	ND	1.0	101	97	4.0				70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	100	100	0.0				70 - 130	30
% Bromofluorobenzene	97	%	99	101	2.0				70 - 130	30
% Dibromofluoromethane	102	%	92	93	1.1				70 - 130	30
% Toluene-d8	91	%	102	102	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%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD 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
November 13, 2019

Wednesday, November 13, 2019

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCE53952 - EPSSYRC

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

November 13, 2019 SDG I.D.: GCE53952

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

SVOA Narration

CHEM07 11/07/19-2: CE53952

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.

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.088 (0.1), Hexachlorobenzene 0.087 (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: 2-Nitrophenol 0.078 (0.1), Hexachlorobenzene 0.081 (0.1)
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%.

VOA Narration

CHEM17 11/05/19-3: CE53952

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 24% (20%), Acetone 37% (20%), Bromoform 22% (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 0.034 (0.05), 2-Hexanone 0.070 (0.1), Acetone 0.056 (0.1), Bromoform 0.055 (0.1), Methyl ethyl ketone 0.080 (0.1), Tetrahydrofuran (THF) 0.049 (0.05)
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 0.042 (0.05), Acetone 0.041 (0.05), Tetrahydrofuran (THF) 0.039 (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%.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

November 13, 2019

SDG I.D.: GCE53952

The samples in this delivery group were received at 6.8°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☒ No ☐
Temp 1.6 °C Pg 1 of 1

NY/NJ/PA 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

Contact Options:
☒ Phone: (315) 451-6666
☐ Fax:
☒ Email: wsimpson@epssolutions.com

Customer: EPSS of Vermont
Address: 532 State Fair Blvd
Syracuse, NY 13204

Project: N 19464
Report to: Bill Simpson
Invoice to: Accts Payable
QUOTE # :

Project P.O: 43105N

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 11.04.19

Client Sample - Information - Identification

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 8260 Full List	SVOC 8270 Full List	Flash Points	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 NAOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
53952	Cistern Water	WW	11/4/19	1323	X	X	X					3	1	1					

Relinquished by:	Accepted by:	Date:	Time:
[signature] EPSS	[signature] ALS	11/5/19	1102

Comments, Special Requirements or Regulations:

Data Format:
☐ Phoenix Std Report ☐ EQuIS
☐ Excel ☐ NJ Hazsite EDD
☐ PDF ☐ NY EZ EDD (ASP)
☐ GIS/Key ☐ Other

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE

Data Package:
☐ NJ Reduced Deliv. * ☐ Other
☐ NY Enhanced (ASP B) *

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO
☐ Unrestricted Soil 375SCO
☐ Residential Soil 375SCO
☐ Residential
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY