EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

February 8, 2019

Mr. Richard Mustico
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
625 Broadway, Albany, New York 12233

Re: Quarterly Inspection Report (Q4;2018)
Tomat Service Station
1815-1825 Ocean Avenue, Brooklyn, New York
NYSDEC BCP Number: C224217

Dear Mr. Mustico:

Please find the enclosed Quarterly Inspection Report for the above referenced project for the fourth quarter of 2018; in accordance with the Site Management Plan (SMP).

If you have any questions or comments regarding the attached report, please do not hesitate to contact me.

Very truly yours,

Chawinie Reilly
Project Manager

Cc: G. Bobersky
J. O'Connell
R. Ockerby, NYSDOH
C. Sosik, EBC
A. Czemerinski, AMC

TOMAT SERVICE STATION
NYSDEC BCP Number C224217
Quarterly Status Report
2018

Reporting Summary

Report Date: February 8, 2019

Reporting Period: 4th Quarter of 2018

Site Status: The building is currently under construction and is not occupied.

Work Performed this Quarter: December 2018 – Inspection of the Air Sparge and Soil Vapor Extraction system. PID and vacuum measurements for SVE wells (SVE-1 and SVE-2) and vacuum readings for AS wells (AS1, AS2, AS3, AS4, AS5, AS6, AS7 and AS8) were conducted. PID readings at the pre-carbon, between carbon and post-carbon locations were also collected. Quarterly pre and post carbon sample collection was submitted for laboratory analysis. Quarterly groundwater samples were collected from all wells for laboratory analysis.

Monitoring Program Summary

No. of Sampling Points: Six on-site groundwater monitoring wells (17GW1, 17GW2, 17GW3, 17GW4, 17GW5, 17GW6), two SVE wells (SVE-1 and SVE-2), eight AS wells (AS1, AS2, AS3, AS4, AS5, AS6, AS7 and AS8) Pre-carbon, Post-carbon sample locations.

Gauging Frequency: Quarterly laboratory analysis for 6 on-site monitoring wells (17GW1, 17GW2, 17GW3, 17GW4, 17GW5, 17GW6), pre and post carbon sampling locations. Quarterly for PID and vacuum measurements for SVE wells (SVE-1 and SVE-2), vacuum readings for AS wells (AS1, AS2, AS3, AS4, AS5, AS6, AS7 and AS8), pre-carbon, between carbon and post-carbon locations.

Sampling Frequency: Quarterly laboratory analysis for 6 on-site monitoring wells (17GW1, 17GW2, 17GW3, 17GW4, 17GW5, 17GW6), pre and post carbon sampling locations. Quarterly for PID and vacuum measurements for SVE wells (SVE-1 and SVE-2),

	vacuum readings for AS wells (AS1, AS2, AS3, AS4, AS5, AS6, AS7 and AS8), pre-carbon, between carbon and post-carbon locations.
Reporting Frequency:	Quarterly Inspection Report (Quarterly), Periodic Review Report (Annually).
Groundwater Depth:	21 feet below sidewalk grade
GW Flow Direction:	West
Monitoring Results:	No product was detected within any of the monitoring wells.
Sampling Results:	Quarterly sampling occurred during this report. Based on laboratory results and PID readings system is running properly.

LIQUID LEVEL MONITORING

Depth to water readings are taken from 17GW1, 17GW2, 17GW3, 17GW4, 17GW5, 17GW6 on a quarterly basis with an electronic interface meter prior to purging the wells for sampling. As previously noted, no Liquid Phase Hydrocarbons (LPH) was detected in any of the monitoring wells during this quarter.

GROUNDWATER SAMPLING

The 4Q18 groundwater sampling event was performed on December 14, 2018. The groundwater samples were collected from 17GW1, 17GW2, 17GW3, 17GW4, 17GW5 and 17GW6 in accordance with the low-flow groundwater sampling procedures outlined within the SMP. See **Figure 1,** for the location of 17GW1, 17GW2, 17GW3, 17GW4, 17GW5 and 17GW6. A copy of each of the Well Purging-Field Water Quality Measurements Form is attached as **Appendix A**.

The groundwater samples were picked up at EBC's office by laboratory dispatched courier and delivered to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). The groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs) via EPA Method 8260.

Copies of the laboratory reports are attached as **Appendix B**. The laboratory results for the fourth quarter sampling event are summarized and compared to their respectively Groundwater Quality Standards (GQSs) in **Table 1.**

AIR SAMPLING

The air samples collected from the pre-carbon and post carbon locations were collected in 6 Liter summa canisters fitted with 30-min laboratory calibrated regulators. These locations were sampled in December 2018.

The sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on the chain of custody.

During the sampling event; the SVE sampling ports, pre carbon, between carbon and post carbon locations were field screened with a photo-ionization detector (PID) and vacuum readings were collected at these locations. Summa canisters were picked up at EBC's office by laboratory dispatched courier and delivered to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). The air samples were submitted for laboratory analysis of VOCs via Method TO-15.

Copies of the laboratory reports are attached in **Appendix C**. Routine System Inspection Forms are attached in **Appendix D**. The laboratory results for pre and post carbon air samples was compared to the appropriate standards/criteria in **Table 2**.

QUATERLY GROUNDWATER SAMPLING RESULTS

17GW1– VOCs including, 1,2,4-trimethylbenzene (210 µg/L), 1,3,5-trimethylbenzene (18 µg/L), ethylbenzene (130 µg/L), isopropylbenzene (13 µg/L), naphthalene (58 µg/L) and n-propylbenzene (28 µg/L), were reported above NYSDEC Groundwater Quality Standards. A total VOC concentration of 520.00 µg/L was reported during the fourth quarter 2018 sampling event.

17GW2– No VOCs were reported above NYSDEC Groundwater Quality Standards. A total VOC concentration of 4.48 µg/L was reported during the fourth quarter 2018 sampling event.

17GW3– VOCs including, 1,2,4-trimethylbenzene (55 µg/L), 1,3,5-trimethylbenzene (5.1 µg/L), ethylbenzene (9.8 µg/L), and n-propylbenzene (5.1 µg/L), were reported above NYSDEC Groundwater Quality Standards. A total VOC concentration of 88.97 µg/L was reported during the fourth quarter 2018 sampling event.

17GW4– VOCs including, 1,2,4-trimethylbenzene (16 µg/L), isopropylbenzene (13 µg/L), n-butylbenzene (8.7 µg/L) n-propylbenzene (34 µg/L), and sec-butylbenzene (6.1 µg/L), were reported above NYSDEC Groundwater Quality Standards. A total VOC concentration of 92.64 µg/L was reported during the fourth quarter 2018 sampling event.

17GW5– VOCs including, 1,2,4-trimethylbenzene (110 µg/L), 1,3,5-trimethylbenzene (8.5 µg/L), ethylbenzene (21 µg/L), isopropylbenzene (43 µg/L), naphthalene (63 µg/L), n-butylbenzene (14 µg/L), n-propylbenzene (130 µg/L), p- isopropyltoluene (5.3 µg/L), and sec-butylbenzene (9.2 µg/L) were reported above NYSDEC Groundwater Quality Standards. A total VOC concentration of 416.40 µg/L was reported during the fourth quarter 2018 sampling event.

17GW6– VOCs including, 1,2,4-trimethylbenzene (200 µg/L), 1,3,5-trimethylbenzene (21 µg/L), ethylbenzene (140 µg/L), isopropylbenzene (15 µg/L), naphthalene (63 µg/L), and n-propylbenzene (30 µg/L) were reported above NYSDEC Groundwater Quality Standards. A total VOC concentration of 543.3 µg/L was reported during the fourth quarter 2018 sampling event.

QUATERLY AIR SAMPLE RESULTS

PRE-CARBON – The December 2018 BTEX concentration was reported at 477 µg/m^3. The total VOC concentrations during this period was reported at 1,899.16 µg/m^3. PID reading for this port was 31.2 ppm.

POST-CARBON – The December 2018 BTEX concentration was reported at 252 µg/m^3. The total VOC concentrations during this period was reported at 511.55 µg/m^3. PID reading for this port was 0.1 ppm.

QUATERLY PID AND VACUUM MEASUREMENTS

December 2018:

SVE-1 – PID reading for this port was 0.0 ppm with a vacuum of -24.0 iwc.

S*VE-2* – PID reading for this port was 12.7 ppm with a vacuum of -24.1 iwc.

PRE-CARBON – PID reading for this port was 31.2 ppm.

BETWEEN-CARBON –PID reading for this port was 18.4 ppm.

POST-CARBON –PID reading for this port was 0.1 ppm.

AS-1 – Pressure reading of -5.4 iwc.

AS-2 – Pressure reading of -5.6 iwc.

AS-3 – Pressure reading of -5.3 iwc.

AS-4 – Pressure reading of -5.2 iwc.

AS-5 – Pressure reading of no reading.

AS-6 – Pressure reading of -5.4 iwc.

AS-7 – Pressure reading of no reading.

AS-8 – Pressure reading of -5.7 iwc.

FUTURE PLANS / RECOMMENDATIONS

The quarterly results noted in this report indicate the AS and SVE system is currently operating at optimal conditions and no repairs are required at this time. EBC recommends the continued operation of the AS and the SVE system, continuing quarterly PID monitoring, quarterly vacuum readings, quarterly pre carbon and post carbon air sample collection and quarterly groundwater sampling.

TABLES

Table 1
1828-1850 Ocean Avenue
Brooklyn, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	17GW1 (Baseline)				17GW1				17GW1				17GW1		17GW1	
		11/13/2017				3/15/2018				6/14/2018				8/27/2018		12/14/2018	
		µg/L				µg/L				µg/L				µg/L		µg/L	
	µg/L	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Results	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
1,1,1-Trichloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	0.25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
1,1,2-Trichloroethane	1	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 2.5	2.5	U	2.5	< 1.0	1.0	< 2.5	2.5
1,1-Dichloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	0.25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
1,1-Dichloropropene		< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
1,2,3-Trichlorobenzene		< 20	20	U	5.0	< 1.0	1.0	U	0.25	< 10	10	U	2.5	< 1.0	1.0	< 10	10
1,2,3-Trichloropropane	0.04	< 5.0	5.0	U	5.0	< 0.25	0.25	U	0.25	< 2.5	2.5	U	2.5	< 0.25	0.25	< 2.5	2.5
1,2,4-Trichlorobenzene		< 20	20	U	5.0	< 1.0	1.0	U	0.25	< 10	10	U	2.5	< 1.0	1.0	< 10	10
1,2,4-Trimethylbenzene	5	**560**	40	D	10	**120**	10	D	2.5	**110**	5.0	-	2.5	**81**	5.0	**210**	10
1,2-Dibromo-3-chloropropane	0.04	< 10	10	U	10	< 0.50	0.50	U	0.50	< 5.0	5.0	U	5.0	< 0.50	0.50	< 5.0	5.0
1,2-Dibromoethane		< 5.0	5.0	U	5.0	< 0.25	0.25	U	0.25	< 2.5	2.5	U	2.5	< 0.25	0.25	< 2.5	2.5
1,2-Dichlorobenzene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 4.7	4.7	U	2.5	< 1.0	1.0	< 4.7	4.7
1,2-Dichloroethane	0.6	< 10	10	U	10	< 0.60	0.60	U	0.50	< 5.0	5.0	U	5.0	< 0.60	0.60	< 5.0	5.0
1,2-Dichloropropane	0.94	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 2.5	2.5	U	2.5	< 1.0	1.0	< 2.5	2.5
1,3,5-Trimethylbenzene	5	**69**	20	-	5.0	**16**	1.0	-	0.25	**9.2**	5.0	-	2.5	**5.1**	1.0	**18**	10
1,3-Dichlorobenzene		< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 3.0	3.0	U	2.5	< 1.0	1.0	< 3.0	3.0
1,3-Dichloropropane	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
1,4-Dichlorobenzene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
2,2-Dichloropropane	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
2-Chlorotoluene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
2-Hexanone (Methyl Butyl Ketone)		< 50	50	U	50	< 2.5	2.5	U	2.5	< 25	25	U	25	< 2.5	2.5	< 25	25
2-Isopropyltoluene	5	< 5.0	5.0	U	5.0	**1.5**	1.0	-	0.25	< 5.0	5.0	U	2.5	**0.31**	1.0	< 5.0	5.0
4-Chlorotoluene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
4-Methyl-2-Pentanone		< 50	50	U	50	< 2.5	2.5	U	2.5	< 25	25	U	25	< 2.5	2.5	< 25	25
Acetone	50	< 50	50	U	50	< 5.0	5.0	U	2.5	< 50	50	U	25	**7.4**	5.0	< 50	50
Acrolein		< 50	50	U	50	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	< 25	25
Acrylonitrile	5	< 50	50	U	50	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	U	5.0	< 0.70	0.70	U	0.25	< 2.5	2.5	U	2.5	< 0.70	0.70	< 2.5	2.5
Bromobenzene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Bromochloromethane	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Bromodichloromethane		< 20	20	U	5.0	< 1.0	1.0	U	0.25	< 10	10	U	2.5	< 1.0	1.0	< 10	10
Bromoform		< 50	50	U	5.0	< 5.0	5.0	U	0.25	< 50	50	U	2.5	< 5.0	5.0	< 50	50
Bromomethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	0.25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	U	5.0	< 1.0	1.0	U	0.25	< 10	10	U	2.5	< 1.0	1.0	< 10	10
Carbon tetrachloride	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Chlorobenzene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	0.25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	0.25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	U	5.0	< 5.0	5.0	U	0.25	< 7.0	7.0	U	2.5	< 5.0	5.0	< 7.0	7.0
Chloromethane	60	< 5.0	5.0	U	5.0	< 5.0	5.0	U	0.25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
cis-1,3-Dichloropropene		< 5.0	5.0	U	5.0	< 0.40	0.40	U	0.25	< 2.5	2.5	U	2.5	< 0.40	0.40	< 2.5	2.5
Dibromochloromethane		< 20	20	U	5.0	< 1.0	1.0	U	0.25	< 10	10	U	2.5	< 1.0	1.0	< 10	10
Dibromomethane	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Dichlorodifluoromethane	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Ethylbenzene	5	**320**	20	-	5.0	**76**	10	D	2.5	**80**	5.0	-	2.5	**65**	5.0	**130**	10
Hexachlorobutadiene	0.5	< 4.0	4.0	U	4.0	< 0.50	0.50	U	0.20	< 2.0	2.0	U	2.0	< 0.50	0.50	< 2.0	2.0
Isopropylbenzene	5	**39**	20	-	5.0	**22**	1.0	-	0.25	**12**	5.0	-	2.5	**5.8**	1.0	**13**	10
m&p-Xylenes	5	**290**	20	-	5.0	**64**	10	D	2.5	**54**	10	-	2.5	**29**	1.0	**63**	10
Methyl Ethyl Ketone (2-Butanone)	50	< 50	50	U	50	< 2.5	2.5	U	2.5	< 25	25	U	25	< 2.5	2.5	< 25	25
Methyl t-butyl ether (MTBE)	10	< 20	20	U	5.0	< 1.0	1.0	U	0.25	< 10	10	U	2.5	< 1.0	1.0	< 10	10
Methylene chloride	5	< 20	20	U	20	< 3.0	3.0	U	1.0	< 5.0	5.0	U	5.0	< 3.0	3.0	< 5.0	5.0
Naphthalene	10	**190**	20	-	20	**53**	10	D	10	**42**	10	-	10	**24**	10	**58**	10
n-Butylbenzene	5	**9.4**	20	J	5.0	**3.7**	1.0	-	0.25	**2.6**	5.0	J	2.5	**0.7**	1.0	< 5.0	5.0
n-Propylbenzene	5	**81**	20	-	5.0	**27**	10	D	2.5	**25**	5.0	-	2.5	**11**	1.0	**28**	10
o-Xylene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
p-Isopropyltoluene		< 5.0	5.0	U	5.0	**1.7**	1.0	-	0.25	< 5.0	5.0	U	2.5	**0.5**	1.0	< 5.0	5.0
sec-Butylbenzene	5	**5.4**	20	J	5.0	**2.9**	1.0	-	0.25	< 5.0	5.0	U	2.5	**0.68**	1.0	< 5.0	5.0
Styrene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
tert- Butylalcohol		-	-	-	-	-	-	-	-	< 50	50	U	10	< 50	50	< 500	500
tert-Butylbenzene	5	< 5.0	5.0	U	5.0	**0.6**	1.0	J	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Tetrachloroethene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Tetrahydrofuran (THF)		< 50	50	U	50	< 5.0	5.0	U	2.5	< 50	50	U	25	< 5.0	5.0	< 50	50
Toluene	5	< 5.0	5.0	U	5.0	**0.26**	1.0	J	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
trans-1,2-Dichloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	0.25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	U	5.0	< 0.40	0.40	U	0.25	< 2.5	2.5	U	2.5	< 0.40	0.40	< 2.5	2.5
trans-1,4-dichloro-2-butene	5	< 50	50	U	50	< 2.5	2.5	U	2.5	< 25	25	U	25	< 2.5	2.5	< 25	25
Trichloroethene	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Trichlorofluoromethane	5	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Trichlorotrifluoroethane		< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 5.0	5.0	U	2.5	< 1.0	1.0	< 5.0	5.0
Vinyl Chloride	2	< 5.0	5.0	U	5.0	< 1.0	1.0	U	0.25	< 2.0	2.0	U	2.0	< 1.0	1.0	< 2.5	2.5
1,4 - dioxane		-	-	-	-	-	-	-	-	< 0.20	0.20	U	0.20	< 100	100	< 1000	1,000
Total VOCs		1563.8				388.66				334.8				230.49		520.00	

Notes:
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 1
1828-1850 Ocean Avenue
Brooklyn, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	17GW2 (Baseline)				17GW2				17GW2				17GW2		17GW2	
		11/13/2017				3/15/2018				6/14/2018				8/27/2018		12/14/2018	
		µg/L				µg/L				µg/L				µg/L		µg/L	
	µg/L	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Results	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 0.25	0.25	U	0.25	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	**2,100**	100	D	25	**640**	50	D	13	**2.1**	1.0	-	0.25	**0.46**	1.0	**0.62**	1.0
1,2-Dibromo-3-chloropropane	0.04	< 10	10	U	10	< 5.0	5.0	U	5.0	< 0.50	0.50	U	0.50	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 0.25	0.25	U	0.25	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene	5	< 5.0	5.0	U	5.0	< 4.7	4.7	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 10	10	U	10	< 5.0	5.0	U	5.0	< 0.60	0.60	U	0.50	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	**480**	20	-	5.0	**110**	10	-	2.5	**0.54**	1.0	J	0.25	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene		< 5.0	5.0	U	5.0	< 3.0	3.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
2,2-Dichloropropane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
2-Hexanone (Methyl Butyl Ketone)		< 50	50	U	50	< 25	25	U	25	< 2.5	2.5	U	2.5	< 2.5	2.5	< 2.5	2.5
2-Isopropyltoluene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	U	50	< 25	25	U	25	< 2.5	2.5	U	2.5	< 2.5	2.5	< 2.5	2.5
Acetone	50	< 50	50	U	50	< 50	50	U	25	< 5.0	5.0	U	2.5	**3.8**	5.0	**2.5**	5.0
Acrolein		< 50	50	U	50	< 25	25	U	25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	U	50	< 25	25	U	25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Benzene	1	**6.9**	14	J	5.0	< 2.5	2.5	U	2.5	< 0.70	0.70	U	0.25	< 0.70	0.70	< 0.70	0.70
Bromobenzene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Bromoform		< 50	50	U	5.0	< 50	50	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Bromomethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Chlorobenzene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	U	5.0	< 7.0	7.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloromethane	60	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 0.40	0.40	U	0.25	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	**1,400**	100	D	25	**470**	50	D	13	**0.69**	1.0	J	0.25	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 4.0	4.0	U	4.0	< 2.0	2.0	U	2.0	< 0.50	0.50	U	0.20	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	**81**	20	-	5.0	**34**	10	-	2.5	**0.29**	1.0	J	0.25	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	**1,300**	100	D	25	**570**	10	-	2.5	**0.53**	1.0	J	0.25	< 1.0	1.0	**0.65**	1.0
Methyl Ethyl Ketone (2-Butanone)	50	< 50	50	U	50	< 25	25	U	25	< 2.5	2.5	U	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	< 20	20	U	20	< 10	10	U	10	< 3.0	3.0	U	1.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	**450**	100	D	100	**160**	10	-	10	< 1.0	1.0	U	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	**13**	20	J	5.0	**8.9**	10	J	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	**210**	20	-	5.0	**72**	10	-	2.5	**0.67**	1.0	J	0.25	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	**740**	100	D	25	**45**	10	-	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	**0.27**	1.0
p-Isopropyltoluene		**7.7**	20	J	5.0	**3.9**	10	J	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	**12**	20	J	5.0	**6.4**	10	J	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	**0.44**	1.0
Styrene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
tert- Butylalcohol		-	-	-	-	-	-	-	-	< 50	50	U	10	< 50	50	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	U	50	< 50	50	U	25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
Toluene	5	**40**	20	-	5.0	**2.6**	10	J	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 0.40	0.40	U	0.25	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 50	50	U	50	< 25	25	U	25	< 2.5	2.5	U	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,4 - dioxane		-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100
Total VOCs		6840.6				2122.8				4.82				4.26		4.48	

Notes:
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 1
1828-1850 Ocean Avenue
Brooklyn, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	17GW3 (Baseline)				17GW3				17GW3				17GW3		17GW3	
		11/13/2017				3/15/2018				6/14/2018				8/27/2018		12/14/2018	
		µg/L				µg/L				µg/L				µg/L		µg/L	
	µg/L	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Results	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 0.25	0.25	U	0.25	< 0.50	0.50	< 0.25	0.25
1,2,4-Trichlorobenzene		< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	**1,600**	200	D	50	**140**	10	-	2.5	**420**	13	D	13	**150**	5.0	**55**	5.0
1,2-Dibromo-3-chloropropane	0.04	< 10	10	U	10	< 5.0	5.0	U	5.0	< 0.50	0.50	U	0.50	< 1.0	1.0	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 0.25	0.25	U	0.25	< 0.50	0.50	< 0.25	0.25
1,2-Dichlorobenzene	5	< 5.0	5.0	U	5.0	< 4.7	4.7	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 10	10	U	10	< 5.0	5.0	U	5.0	< 0.60	0.60	U	0.50	< 1.0	1.0	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	**190**	20	-	5.0	**17**	10	-	2.5	**66**	5.0	D	2.5	**16**	2.0	**5.1**	1.0
1,3-Dichlorobenzene		< 5.0	5.0	U	5.0	< 3.0	3.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
2,2-Dichloropropane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
2-Hexanone (Methyl Butyl Ketone)		< 50	50	U	50	< 25	25	U	25	< 2.5	2.5	U	2.5	< 5.0	5.0	< 2.5	2.5
2-Isopropyltoluene	5	< 5.0	5.0	U	5.0	**5.2**	10	J	2.5	**1.2**	1.0	-	0.25	< 2.0	2.0	**0.43**	1.0
4-Chlorotoluene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	U	50	< 25	25	U	25	< 2.5	2.5	U	2.5	< 5.0	5.0	< 2.5	2.5
Acetone	50	< 50	50	U	50	< 50	50	U	25	< 5.0	5.0	U	2.5	**12**	10	< 5.0	5.0
Acrolein		< 50	50	U	50	< 25	25	U	25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	U	50	< 25	25	U	25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Benzene	1	**12**	14	J	5.0	< 2.5	2.5	U	2.5	**2.3**	0.70	-	0.25	< 0.70	0.70	< 0.70	0.70
Bromobenzene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Bromodichloromethane		< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Bromoform		< 50	50	U	5.0	< 50	50	U	2.5	< 5.0	5.0	U	0.25	< 10	10	< 5.0	5.0
Bromomethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	U	5.0	< 10	10	U	2.5	**0.38**	1.0	J	0.25	**0.65**	2.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Chlorobenzene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	U	5.0	< 7.0	7.0	U	2.5	< 5.0	5.0	U	0.25	< 7.0	7.0	< 5.0	5.0
Chloromethane	60	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 0.40	0.40	U	0.25	< 0.50	0.50	< 0.40	0.40
Dibromochloromethane		< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Ethylbenzene	5	**470**	20	-	5.0	**37**	10	-	2.5	**200**	5.0	D	2.5	**55**	2.0	**9.8**	1.0
Hexachlorobutadiene	0.5	< 4.0	4.0	U	4.0	< 2.0	2.0	U	2.0	< 0.50	0.50	U	0.20	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	**71**	20	-	5.0	**53**	10	-	2.5	**24**	1.0	-	0.25	**6.7**	2.0	**2.1**	1.0
m&p-Xylenes	5	**450**	20	-	5.0	**17**	10	-	2.5	**34**	1.0	-	0.25	**25**	2.0	**4.5**	1.0
Methyl Ethyl Ketone (2-Butanone)	50	< 50	50	U	50	< 25	25	U	25	< 2.5	2.5	U	2.5	< 5.0	5.0	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 20	20	U	5.0	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Methylene chloride	5	< 20	20	U	20	< 10	10	U	10	< 3.0	3.0	U	1.0	< 5.0	5.0	< 3.0	3.0
Naphthalene	10	**210**	20	-	20	**150**	10	-	10	**100**	10	D	10	**24**	2.0	**4.5**	1.0
n-Butylbenzene	5	**10**	20	J	5.0	**16**	10	-	2.5	**4.8**	1.0	-	0.25	**1.9**	2.0	**0.73**	1.0
n-Propylbenzene	5	**160**	20	-	5.0	**120**	10	-	2.5	**59**	5.0	D	2.5	**15**	2.0	**5.1**	1.0
o-Xylene	5	**180**	20	-	5.0	< 5.0	5.0	U	2.5	**6.2**	1.0	-	0.25	**1**	2.0	**0.48**	1.0
p-Isopropyltoluene		**5.5**	20	J	5.0	**8.8**	10	J	2.5	**2.8**	1.0	-	0.25	**1**	2.0	**0.64**	1.0
sec-Butylbenzene	5	**9.5**	20	J	5.0	**10**	10	-	2.5	**3.5**	1.0	-	0.25	< 2.0	2.0	**0.59**	1.0
Styrene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
tert- Butylalcohol		-	-	-	-	-	-	-	-	< 50	50	U	10	< 100	100	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	U	50	< 50	50	U	25	< 5.0	5.0	U	2.5	< 10	10	< 5.0	5.0
Toluene	5	**25**	20	-	5.0	< 5.0	5.0	U	2.5	**2.7**	1.0	-	0.25	< 2.0	2.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 0.40	0.40	U	0.25	< 0.50	0.50	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 50	50	U	50	< 25	25	U	25	< 2.5	2.5	U	2.5	< 5.0	5.0	< 2.5	2.5
Trichloroethene	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	U	5.0	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
Vinyl Chloride	2	< 5.0	5.0	U	5.0	< 2.5	2.5	U	2.5	< 1.0	1.0	U	0.25	< 2.0	2.0	< 1.0	1.0
1,4 - dioxane		-	-	-	-	-	-	-	-	< 100	100	U	50	< 200	200	< 100	100
Total VOCs		3393				574				926.88				308.25		88.97	

Notes:
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 1
1828-1850 Ocean Avenue
Brooklyn, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	17GW4 (Baseline)				17GW4				17GW4				17GW4		17GW4	
		11/16/2017				3/15/2018				6/14/2018				8/27/2018		12/14/2018	
		µg/L				µg/L				µg/L				µg/L		µg/L	
	µg/L	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Results	RL
1,1,1,2-Tetrachlorothane	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 0.25	0.25	U	0.25	< 0.25	0.25	U	0.25	< 0.25	0.25	U	0.25	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	**230**	10	D	2.5	**64**	5.0	D	1.3	**5.1**	1.0	-	0.25	**2.7**	1.0	**16**	1.0
1,2-Dibromo-3-chloropropane	0.04	< 0.50	0.50	U	0.50	< 0.50	0.50	U	0.50	< 0.50	0.50	U	0.50	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane		< 0.25	0.25	U	0.25	< 0.25	0.25	U	0.25	< 0.25	0.25	U	0.25	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 0.60	0.60	U	0.50	< 0.60	0.60	U	0.50	< 0.60	0.60	U	0.50	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	0.94	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	**0.3**	1.0	J	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	**1.1**	1.0
1,3-Dichlorobenzene		< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
2,2-Dichloropropane	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
2-Hexanone (Methyl Butyl Ketone)		< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 2.5	2.5	< 2.5	2.5
2-Isopropyltoluene	5	**4.2**	1.0	-	0.25	**4.6**	1.0	-	0.25	**2.6**	1.0	-	0.25	**1.2**	1.0	**3.8**	1.0
4-Chlorotoluene	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 2.5	2.5	< 2.5	2.5
Acetone	50	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	**3.8**	5.0	**3**	5.0
Acrolein		< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 0.70	0.70	U	0.25	< 0.70	0.70	U	0.25	< 0.70	0.70	U	0.25	< 0.70	0.70	< 0.70	0.70
Bromobenzene	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Bromoform		< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Bromomethane	5	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Chlorobenzene	5	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloroform	7	**1.4**	5.0	J	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloromethane	60	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	**0.31**	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
cis-1,3-Dichloropropene		< 0.40	0.40	U	0.25	< 0.40	0.40	U	0.25	< 0.40	0.40	U	0.25	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	**1.9**	1.0	-	0.25	**1.9**	1.0	-	0.25	**0.98**	1.0	J	0.25	**0.45**	1.0	**1.9**	1.0
Hexachlorobutadiene	0.5	< 0.50	0.50	U	0.20	< 0.50	0.50	U	0.20	< 0.50	0.50	U	0.20	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	**12**	1.0	-	0.25	**15**	1.0	-	0.25	**8.7**	1.0	-	0.25	**3.9**	1.0	**13**	1.0
m&p-Xylenes	5	**2.2**	1.0	-	0.25	**0.39**	1.0	J	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	**0.79**	1.0
Methyl Ethyl Ketone (2-Butanone)	50	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	**1.3**	3.0	JS	1.0	< 3.0	3.0	U	1.0	< 3.0	3.0	U	1.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 1.0	1.0	U	1.0	< 1.0	1.0	U	1.0	< 1.0	1.0	U	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	**4.3**	1.0	-	0.25	**9.2**	1.0	-	0.25	**14**	1.0	-	0.25	**4.5**	1.0	**8.7**	1.0
n-Propylbenzene	5	**25**	10	D	2.5	**52**	5.0	D	1.3	**30**	1.0	-	0.25	**13**	1.0	**34**	2.0
o-Xylene	5	**1.2**	1.0	-	0.25	**0.46**	1.0	J	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	**0.47**	1.0
p-Isopropyltoluene		**4.1**	1.0	-	0.25	**5.2**	1.0	-	0.25	**2.1**	1.0	-	0.25	**0.66**	1.0	**1.4**	1.0
sec-Butylbenzene	5	**3.4**	1.0	-	0.25	**5.7**	1.0	-	0.25	**6.5**	1.0	-	0.25	**2.9**	1.0	**6.1**	1.0
Styrene	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
tert- Butylalcohol		-	-	-	-	-	-	-	-	< 50	50	U	10	< 50	50	< 50	50
tert-Butylbenzene	5	**0.97**	1.0	J	0.25	**1.5**	1.0	-	0.25	**0.92**	1.0	J	0.25	**0.39**	1.0	**1.2**	1.0
Tetrachloroethene	5	**0.27**	1.0	J	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	**0.5**	1.0	**0.64**	1.0
Tetrahydrofuran (THF)		< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	< 5.0	5.0
Toluene	5	**0.37**	1.0	J	0.25	**0.5**	1.0	J	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	**0.54**	1.0
trans-1,2-Dichloroethene	5	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 0.40	0.40	U	0.25	< 0.40	0.40	U	0.25	< 0.40	0.40	U	0.25	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.0	1.0
1,4 - dioxane		-	-	-	-	-	-	-	-	< 0.20	0.20	U	0.20	< 100	100	< 100	100
Total VOCs		**292.91**				**160.45**				**70.9**				**34.31**		**92.64**	

Notes:
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 1
1828-1850 Ocean Avenue
Brooklyn, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	17GW5 (Baseline)				17GW5				17GW5				17GW5		17GW5	
		11/13/2017				3/15/2018				6/14/2018				8/27/2018		12/14/2018	
	µg/L	µg/L				µg/L				µg/L				µg/L		µg/L	
		Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Results	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
1,1,1-Trichloroethane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
1,1,2-Trichloroethane	1	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.3	1.3
1,1-Dichloroethane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
1,1-Dichloropropene		< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
1,2,3-Trichlorobenzene		< 10	10	U	2.5	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
1,2,3-Trichloropropane	0.04	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 0.25	0.25	U	0.25	< 0.25	0.25	< 1.3	1.3
1,2,4-Trichlorobenzene		< 10	10	U	2.5	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
1,2,4-Trimethylbenzene	5	**390**	20	D	5.0	**570**	50	D	13	**160**	5.0	D	2.5	**140**	5.0	**110**	5.0
1,2-Dibromo-3-chloropropane	0.04	< 5.0	5.0	U	5.0	< 5.0	5.0	U	5.0	< 0.50	0.50	U	0.50	< 0.50	0.50	< 2.5	2.5
1,2-Dibromoethane		< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 0.25	0.25	U	0.25	< 0.25	0.25	< 1.3	1.3
1,2-Dichlorobenzene	5	< 4.7	4.7	U	2.5	< 4.7	4.7	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 4.7	4.7
1,2-Dichloroethane	0.6	< 5.0	5.0	U	5.0	< 5.0	5.0	U	5.0	< 0.60	0.60	U	0.50	< 0.60	0.60	< 2.5	2.5
1,2-Dichloropropane	0.94	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 1.3	1.3
1,3,5-Trimethylbenzene	5	**27**	10	-	2.5	**110**	10	-	2.5	**12**	1.0	-	0.25	**12**	1.0	**8.5**	5.0
1,3-Dichlorobenzene		< 3.0	3.0	U	2.5	< 3.0	3.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 3.0	3.0
1,3-Dichloropropane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
1,4-Dichlorobenzene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
2,2-Dichloropropane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
2-Chlorotoluene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
2-Hexanone (Methyl Butyl Ketone)		< 25	25	U	25	< 25	25	U	25	< 2.5	2.5	U	2.5	< 2.5	2.5	< 13	13
2-Isopropyltoluene	5	**4.3**	10	J	2.5	< 5.0	5.0	U	2.5	**5.4**	1.0	-	0.25	**4.9**	1.0	**4.8**	5.0
4-Chlorotoluene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
4-Methyl-2-Pentanone		< 25	25	U	25	< 25	25	U	25	< 2.5	2.5	U	2.5	< 2.5	2.5	< 13	13
Acetone	50	< 50	50	U	25	< 50	50	U	25	< 5.0	5.0	U	2.5	**2.6**	5.0	< 25	25
Acrolein		< 25	25	U	25	< 25	25	U	25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 13	13
Acrylonitrile	5	< 25	25	U	25	< 25	25	U	25	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 2.5	2.5	U	2.5	**3.6**	7.0	J	2.5	< 0.70	0.70	U	0.25	< 0.70	0.70	< 1.3	1.3
Bromobenzene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Bromochloromethane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Bromodichloromethane		< 10	10	U	2.5	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Bromoform		< 50	50	U	2.5	< 50	50	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 25	25
Bromomethane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 10	10	U	2.5	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Carbon tetrachloride	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Chlorobenzene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	U	2.5	< 7.0	7.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 7.0	7.0
Chloromethane	60	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	**1.5**	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
cis-1,3-Dichloropropene		< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 0.40	0.40	U	0.25	< 0.40	0.40	< 1.3	1.3
Dibromochloromethane		< 10	10	U	2.5	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Dibromomethane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Dichlorodifluoromethane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Ethylbenzene	5	**46**	10	-	2.5	**270**	10	-	2.5	**25**	1.0	-	0.25	**25**	1.0	**21**	5.0
Hexachlorobutadiene	0.5	< 2.0	2.0	U	2.0	< 2.0	2.0	U	2.0	< 0.50	0.50	U	0.20	< 0.50	0.50	< 1.0	1.0
Isopropylbenzene	5	**50**	10	-	2.5	**42**	10	-	2.5	**55**	5.0	D	2.5	**49**	5.0	**43**	5.0
m&p-Xylenes	5	**17**	10	-	2.5	**250**	10	-	2.5	**13**	1.0	-	0.25	**13**	1.0	**7.6**	5.0
Methyl Ethyl Ketone (2-Butanone)	50	< 25	25	U	25	< 25	25	U	25	< 2.5	2.5	U	2.5	< 2.5	2.5	< 13	13
Methyl t-butyl ether (MTBE)	10	< 10	10	U	2.5	< 10	10	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Methylene chloride	5	< 10	10	U	10	< 10	10	U	10	< 3.0	3.0	U	1.0	< 3.0	3.0	< 5.0	5.0
Naphthalene	10	**150**	10	-	10	**140**	10	-	10	**120**	10	D	10	**92**	20	**63**	5.0
n-Butylbenzene	5	**15**	10	-	2.5	**6.8**	10	J	2.5	**15**	1.0	-	0.25	**16**	1.0	**14**	5.0
n-Propylbenzene	5	**140**	10	-	2.5	**84**	10	-	2.5	**130**	5.0	D	2.5	**130**	5.0	**130**	5.0
o-Xylene	5	< 5.0	5.0	U	2.5	**4.4**	10	J	2.5	**0.58**	1.0	J	0.25	**0.54**	1.0	< 5.0	5.0
p-Isopropyltoluene		**8.4**	10	J	2.5	**4.3**	10	J	2.5	**6.3**	1.0	-	0.25	**6.4**	1.0	**5.3**	5.0
sec-Butylbenzene	5	**9.8**	10	J	2.5	**5.2**	10	J	2.5	**11**	1.0	-	0.25	**11**	1.0	**9.2**	5.0
Styrene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
tert- Butylalcohol		-	-	-	-	-	-	-	-	< 50	50	U	10	< 50	50	< 250	250
tert-Butylbenzene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	**1.3**	1.0	-	0.25	**1.2**	1.0	< 5.0	5.0
Tetrachloroethene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Tetrahydrofuran (THF)		< 50	50	U	25	< 50	50	U	25	< 5.0	5.0	U	2.5	< 5.0	5.0	< 25	25
Toluene	5	< 5.0	5.0	U	2.5	**2.8**	10	J	2.5	**0.72**	1.0	J	0.25	**0.53**	1.0	< 5.0	5.0
trans-1,2-Dichloroethene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	0.25	< 5.0	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 0.40	0.40	U	0.25	< 0.40	0.40	< 1.3	1.3
trans-1,4-dichloro-2-butene	5	< 25	25	U	25	< 25	25	U	25	< 2.5	2.5	U	2.5	< 2.5	2.5	< 13	13
Trichloroethene	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Trichlorofluoromethane	5	< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Trichlorotrifluoroethane		< 5.0	5.0	U	2.5	< 5.0	5.0	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 5.0	5.0
Vinyl Chloride	2	< 2.5	2.5	U	2.5	< 2.5	2.5	U	2.5	< 1.0	1.0	U	0.25	< 1.0	1.0	< 2.0	2.0
1,4 - dioxane		-	-	-	-	-	-	-	-	< 0.20	0.20	U	0.20	< 100	100	< 500	500
Total VOCs		857.50				1493.1				555.3				505.67		416.40	

Notes:
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 1
1828-1850 Ocean Avenue
Brooklyn, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	17GW6 (Baseline)				17GW6				17GW6				17GW6		17GW6	
		11/13/2017				3/15/2018				6/14/2018				8/27/2018		12/14/2018	
		µg/L				µg/L				µg/L				µg/L		µg/L	
	µg/L	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Qual	MDL	Results	RL	Results	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
1,1,1-Trichloroethane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
1,1,2-Trichloroethane	1	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 1.3	1.3	< 1.3	1.3
1,1-Dichloroethane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloropropene		< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
1,2,3-Trichlorobenzene		< 20	20	U	5.0	< 50	50	U	13	< 20	20	U	5.0	< 5.0	5.0	< 5.0	5.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 1.3	1.3	< 1.3	1.3
1,2,4-Trichlorobenzene		< 20	20	U	5.0	< 50	50	U	13	< 20	20	U	5.0	< 5.0	5.0	< 5.0	5.0
1,2,4-Trimethylbenzene	5	**2,300**	200	D	50	**1,800**	100	D	25	**1,700**	25	D	25	**260**	5.0	**200**	20
1,2-Dibromo-3-chloropropane	0.04	< 10	10	U	10	< 25	25	U	25	< 10	10	U	10	< 2.5	2.5	< 2.5	2.5
1,2-Dibromoethane		< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 1.3	1.3	< 1.3	1.3
1,2-Dichlorobenzene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 4.7	4.7	< 4.7	4.7
1,2-Dichloroethane	0.6	< 10	10	U	10	< 25	25	U	25	< 10	10	U	10	< 2.5	2.5	< 2.5	2.5
1,2-Dichloropropane	0.94	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 1.3	1.3	< 1.3	1.3
1,3,5-Trimethylbenzene	5	**420**	20	-	5.0	**480**	50	-	13	**240**	5.0	-	5.0	**59**	5.0	**21**	5.0
1,3-Dichlorobenzene		< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 3.0	3.0	< 3.0	3.0
1,3-Dichloropropane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
1,4-Dichlorobenzene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
2,2-Dichloropropane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
2-Chlorotoluene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
2-Hexanone (Methyl Butyl Ketone)		< 50	50	U	50	< 130	130	U	130	< 50	50	U	50	< 13	13	< 13	13
2-Isopropyltoluene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
4-Chlorotoluene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
4-Methyl-2-Pentanone		< 50	50	U	50	< 130	130	U	130	< 50	50	U	50	< 13	13	< 13	13
Acetone	50	< 50	50	U	50	< 130	130	U	130	< 50	50	U	50	< 25	25	< 25	25
Acrolein		< 50	50	U	50	< 130	130	U	130	< 5.0	5.0	U	5.0	< 13	13	< 13	13
Acrylonitrile	5	< 50	50	U	50	< 130	130	U	130	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 1.3	1.3	< 1.3	1.3
Bromobenzene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Bromochloromethane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Bromodichloromethane		< 20	20	U	5.0	< 50	50	U	13	< 20	20	U	5.0	< 5.0	5.0	< 5.0	5.0
Bromoform		< 50	50	U	5.0	< 50	50	U	13	< 50	50	U	5.0	< 25	25	< 25	25
Bromomethane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	U	5.0	< 50	50	U	13	< 20	20	U	5.0	< 5.0	5.0	< 5.0	5.0
Carbon tetrachloride	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Chlorobenzene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	U	5.0	< 13	13	U	13	< 7.0	7.0	U	5.0	< 7.0	7.0	< 7.0	7.0
Chloromethane	60	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,3-Dichloropropene		< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 1.3	1.3	< 1.3	1.3
Dibromochloromethane		< 20	20	U	5.0	< 50	50	U	13	< 20	20	U	5.0	< 5.0	5.0	< 5.0	5.0
Dibromomethane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Dichlorodifluoromethane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Ethylbenzene	5	**1,200**	200	D	50	**1,100**	50	-	13	**970**	13	D	13	**150**	5.0	**140**	5.0
Hexachlorobutadiene	0.5	< 4.0	4.0	U	4.0	< 10	10	U	10	< 4.0	4.0	U	4.0	< 1.0	1.0	< 1.0	1.0
Isopropylbenzene	5	**72**	20	-	5.0	**76**	50	-	13	**89**	5.0	-	5.0	**9.9**	5.0	**15**	5.0
m&p-Xylenes	5	**2,800**	200	D	50	**3,500**	100	D	25	**1,600**	50	D	13	**260**	20	**68**	5.0
Methyl Ethyl Ketone (2-Butanone)	50	< 50	50	U	50	< 130	130	U	130	< 50	50	U	50	< 13	13	< 13	13
Methyl t-butyl ether (MTBE)	10	< 20	20	U	5.0	< 50	50	U	13	< 20	20	U	5.0	< 5.0	5.0	< 5.0	5.0
Methylene chloride	5	< 20	20	U	20	< 50	50	U	50	< 10	10	U	10	< 5.0	5.0	< 5.0	5.0
Naphthalene	10	**410**	20	-	20	**460**	50	-	50	**470**	20	-	20	**56**	5.0	**63**	5.0
n-Butylbenzene	5	**23**	20	-	5.0	**15**	50	J	13	**16**	5.0	-	5.0	**3.2**	5.0	**2.5**	5.0
n-Propylbenzene	5	**180**	20	-	5.0	**200**	50	-	13	**160**	5.0	-	5.0	**24**	5.0	**30**	5.0
o-Xylene	5	**140**	20	-	5.0	**550**	50	-	13	**75**	5.0	-	5.0	**15**	5.0	< 5.0	5.0
p-Isopropyltoluene		**9.2**	20	J	5.0	< 13	13	U	13	**10**	5.0	-	5.0	**1.6**	5.0	**2**	5.0
sec-Butylbenzene	5	**14**	20	J	5.0	< 13	13	U	13	**11**	5.0	-	5.0	**1.9**	5.0	**1.8**	5.0
Styrene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
tert- Butylalcohol		-	-	-	-	-	-	-	-	< 1000	1,000	U	200	< 250	250	< 250	250
tert-Butylbenzene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Tetrachloroethene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Tetrahydrofuran (THF)		< 50	50	U	50	< 130	130	U	130	< 50	50	U	50	< 25	25	< 25	25
Toluene	5	**5.1**	20	J	5.0	**79**	50	-	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
trans-1,2-Dichloroethene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 1.3	1.3	< 1.3	1.3
trans-1,4-dichloro-2-butene	5	< 50	50	U	50	< 130	130	U	130	< 50	50	U	50	< 13	13	< 13	13
Trichloroethene	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Trichlorofluoromethane	5	< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Trichlorotrifluoroethane		< 5.0	5.0	U	5.0	< 13	13	U	13	< 5.0	5.0	U	5.0	< 5.0	5.0	< 5.0	5.0
Vinyl Chloride	2	< 5.0	5.0	U	5.0	< 13	13	U	13	< 4.0	4.0	U	4.0	< 2.0	2.0	< 2.0	2.0
1,4 - dioxane		-	-	-	-	-	-	-	-	< 2000	2,000	U	1000	< 500	500	< 500	500
Total VOCs		7573.30				8260				5341				840.6		543.3	

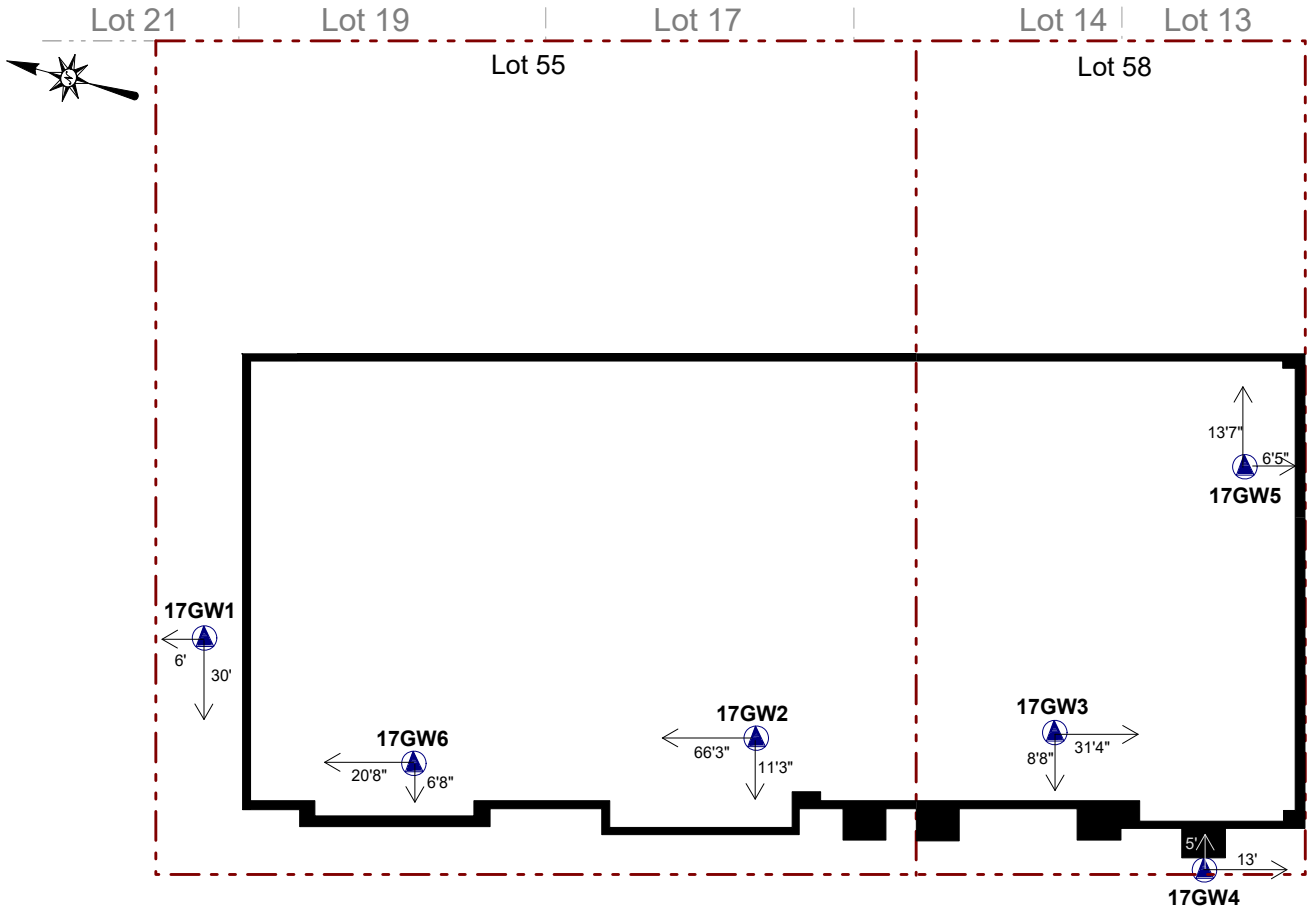
Notes:
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 2
1815-1825 Ocean Avenue
Brooklyn, New York
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub-Slab Value ($\mu g/m^3$) [a]	NYSDOH Soil Outdoor Background Levels ($\mu g/m^3$) [b]	Pre Carbon												Post Carbon											
			1/30/2018 (µg/m3)		2/28/2018 (µg/m3)		3/15/2018 (µg/m3)		6/14/2018 (µg/m3)		8/23/2018 (µg/m3)		12/17/2018 (µg/m3)		1/30/2018 (µg/m3)		2/28/2018 (µg/m3)		3/15/2018 (µg/m3)		6/14/2018 (µg/m3)		8/23/2018 (µg/m3)		12/17/2018 (µg/m3)	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,1,1-Trichloroethane	100	<2.0 - 2.8	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,1,2,2-Tetrachloroethane		<1.5	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,1,2-Trichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethene		<1.0	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 3.00	3.00	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	**0.25**	0.20	< 3.00	3.00	< 0.20	0.20	< 0.20	0.20
1,2,4-Trichlorobenzene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**2.26**	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,2,4-Trimethylbenzene		<1.0	**4.87**	1.00	< 1.00	1.00	**1.78**	1.00	**414**	15.0	**870**	15.0	**76.2**	1.00	**4.62**	1.00	< 1.00	1.00	**3.39**	1.00	< 15.0	15.0	**9.14**	1.00	**40.8**	1.00
1,2-Dibromoethane		<1.5	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,2-Dichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,2-Dichloropropane			< 1.00	1.00	< 1.00	1.00	**2.06**	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorotetrafluoroethane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,3,5-Trimethylbenzene		<1.0	**1.58**	1.00	< 1.00	1.00	< 1.00	1.00	**349**	15.0	**570**	15.0	**95.8**	1.00	**1.53**	1.00	< 1.00	1.00	**1.18**	1.00	< 15.0	15.0	**9.43**	1.00	**24.8**	1.00
1,3-Butadiene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,3-Dichlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**1.13**	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
1,4-Dichlorobenzene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	**2.82**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	**2.61**	1.00
1,4-Dioxane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
2-Hexanone			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
4-Ethyltoluene		NA	**4.79**	1.00	< 1.00	1.00	< 1.00	1.00	**757**	15.0	**747**	15.0	**112**	1.00	**4.87**	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	**4.61**	1.00	**34.9**	1.00
4-Isopropyltoluene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**24.8**	15.0	**33.2**	1.00	**12.1**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	**1.28**	1.00
4-Methyl-2-pentanone			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	**1.21**	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	**7.61**	1.00
Acetone		NA	**25.4**	1.00	**9.45**	1.00	**41.3**	1.00	**175**	15.0	**193**	15.0	**13.4**	1.00	**15.3**	1.00	**7.76**	1.00	**32.3**	1.00	< 15.0	15.0	**166**	15.0	**9.04**	1.00
Acrylonitrile			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	**2.36**	1.00	< 1.00	1.00
Benzene		<1.6 - 4.7	**1.47**	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	**1.62**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	**1.02**	1.00
Benzyl Chloride		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	**1.59**	1.00	< 1.00	1.00
Bromodichloromethane		<5.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Bromoform		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Bromomethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Carbon Disulfide		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**15.5**	15.0	**3.64**	1.00	**5.76**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**17.6**	15.0	**5.38**	1.00	**3.49**	1.00
Carbon Tetrachloride	5	<3.1	**0.75**	0.20	< 0.20	0.20	**0.74**	0.20	< 3.00	3.00	**0.57**	0.20	**0.56**	0.20	< 0.20	0.20	**0.74**	0.20	< 0.20	0.20	< 3.00	3.00	**0.27**	0.20	< 0.20	0.20
Chlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Chloroethane		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Chloroform		<2.4	**5.95**	1.00	< 1.00	1.00	**11.9**	1.00	< 15.0	15.0	**18.3**	1.00	< 1.00	1.00	< 1.00	1.00	**4.19**	1.00	< 1.00	1.00	< 15.0	15.0	**18**	1.00	< 1.00	1.00
Chloromethane		<1.0 - 1.4	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**1.13**	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
cis-1,2-Dichloroethene		<1.0	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 3.00	3.00	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 3.00	3.00	< 0.20	0.20	< 0.20	0.20
cis-1,3-Dichloropropene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Cyclohexane		NA	**2.21**	1.00	< 1.00	1.00	< 1.00	1.00	**1,110**	15.0	**117**	15.0	**230**	10.0	< 1.00	1.00	**1.42**	1.00	< 1.00	1.00	**1,420**	15.0	**375**	15.0	< 1.00	1.00
Dibromochloromethane		<5.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Dichlorodifluromethane		NA	**3.69**	1.00	**3.47**	1.00	**4.03**	1.00	< 15.0	15.0	**2.76**	1.00	**4.36**	1.00	**2.52**	1.00	**2.87**	1.00	**4.05**	1.00	< 15.0	15.0	**2.7**	1.00	**3.14**	1.00
Ethanol			**19.6**	1.00	**4.73**	1.00	**11.9**	1.00	**22.8**	15.0	**15.6**	1.00	**21.8**	1.00	**22.8**	1.00	**1.75**	1.00	**45.2**	1.00	**28.1**	15.0	**27.5**	1.00	**24.1**	1.00
Ethyl Acetate		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**1.23**	1.00	< 15.0	15.0	< 1.00	1.00	**1.56**	1.00
Ethylbenzene		<4.3	**3.11**	1.00	< 1.00	1.00	**2.1**	1.00	**798**	15.0	**116**	1.00	**49.9**	1.00	**2.12**	1.00	< 1.00	1.00	**1.56**	1.00	< 15.0	15.0	**612**	15.0	**35.2**	1.00
Heptane		NA	**3.2**	1.00	< 1.00	1.00	< 1.00	1.00	**3,030**	150	**310**	15.0	**573**	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**9,460**	1,200	**1,360**	15.0	**2.95**	1.00
Hexachlorobutadiene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Hexane		<1.5	**2.61**	1.00	**1.05**	1.00	< 1.00	1.00	**1,390**	15.0	**110**	15.0	**213**	10.0	< 1.00	1.00	**1.29**	1.00	< 1.00	1.00	**1,890**	15.0	**339**	15.0	< 1.00	1.00
Isopropylalcohol		NA	**17.3**	1.00	< 1.00	1.00	**2.51**	1.00	< 15.0	15.0	**2.51**	1.00	< 1.00	1.00	**4.3**	1.00	**5.55**	1.00	**4.13**	1.00	< 15.0	15.0	**4.3**	1.00	**1.14**	1.00
Isopropylbenzene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**84.5**	15.0	< 1.00	1.00	**9.73**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	**44.9**	1.00	**2.69**	1.00
Xylene (m&p)		<4.3	**11.1**	1.00	< 1.00	1.00	**7.81**	1.00	**3,220**	15.0	**911**	15.0	**318**	1.00	**7.72**	1.00	**3.1**	1.00	**6.86**	1.00	< 15.0	15.0	**3,390**	15.0	**153**	1.00
Methyl Ethyl Ketone			**8.96**	1.00	**5.25**	1.00	**4.13**	1.00	< 15.0	15.0	**3.01**	1.00	< 1.00	1.00	**3.65**	1.00	**2.4**	1.00	**6.1**	1.00	< 15.0	15.0	**12.2**	1.00	**5.42**	1.00
MTBE		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Methylene Chloride		<3.4	< 3.00	3.00	< 3.00	3.00	**7.71**	3.00	< 45.1	45.1	< 3.00	3.00	< 3.00	3.00	< 3.00	3.00	< 3.00	3.00	**128**	6.01	< 45.1	45.1	< 3.00	3.00	**53.5**	3.00
n-Butylbenzene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**23**	15.0	**95.5**	1.00	**9.33**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	**4.17**	1.00
Xylene (o)		<4.3	**4.29**	1.00	< 1.00	1.00	**2.94**	1.00	**733**	15.0	**132**	1.00	**94.2**	1.00	**3.36**	1.00	**1.4**	1.00	**3.29**	1.00	< 15.0	15.0	**98.9**	1.00	**52.9**	1.00
Propylene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	**2.34**	1.00	< 1.00	1.00
sec-Butylbenzene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	**15.4**	1.00	**4.92**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	**1.4**	1.00
Styrene		<1.0	**1.6**	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	**1.47**	1.00	**1.56**	1.00	< 1.00	1.00	**1.58**	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Tetrachloroethene	30		**42.5**	0.25	**0.73**	0.25	**36.2**	0.25	**25.1**	3.75	**57**	0.25	**33.4**	0.25	**2.71**	0.25	**25.8**	0.25	**1.12**	0.25	**16.7**	3.75	**43.9**	0.25	**32**	0.25
Tetrahydrofuran		NA	**29**	1.00	**10.8**	1.00	**8.96**	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	**14.9**	1.00	**4.57**	1.00	**24.5**	1.00	< 15.0	15.0	< 1.00	1.00	**2.87**	1.00
Toluene		1.0 - 6.1	**32.1**	1.00	< 1.00	1.00	**4.33**	1.00	**94.5**	15.0	< 1.00	1.00	**13.5**	1.00	**7.95**	1.00	**4.37**	1.00	**6.59**	1.00	< 15.0	15.0	**11.1**	1.00	**9.42**	1.00
trans-1,2-Dichloroethene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	**1.05**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
trans-1,3-Dichloropropene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Trichloroethene	2	<1.7	**0.27**	0.20	< 0.20	0.20	< 0.20	0.20	< 3.00	3.00	**0.33**	0.20	**0.35**	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 3.00	3.00	**0.49**	0.20	**0.54**	0.20
Trichlorofluoromethane		NA	**1.24**	1.00	**2.17**	1.00	**1.75**	1.00	< 15.0	15.0	**1.36**	1.00	**1.94**	1.00	< 1.00	1.00	**1.3**	1.00	**2.95**	1.00	< 15.0	15.0	**1.11**	1.00	< 1.00	1.00
Trichlorotrifluoroethane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 15.0	15.0	< 1.00	1.00	< 1.00	1.00
Vinyl Chloride		<1.0	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 2.99	2.99	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 2.99	2.99	< 0.20	0.20	< 0.20	0.20
BTEX			**52.07**		**0**		**17.18**		**4,845.5**		**1,159**		**477**		**21.15**		**8.87**		**18.3**		**0**		**4,112**		**252**	
Total VOCs			**227.59**		**37.65**		**152.15**		**12,266.2**		**4,326.23**		**1,899.16**		**101.12**		**68.51**		**278.8**		**12,832.4**		**6,542.22**		**511.55**	

Notes:
NA No guidance value or standard available
(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006. New York State Department of Health.
(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected Compounds (NYSDOH

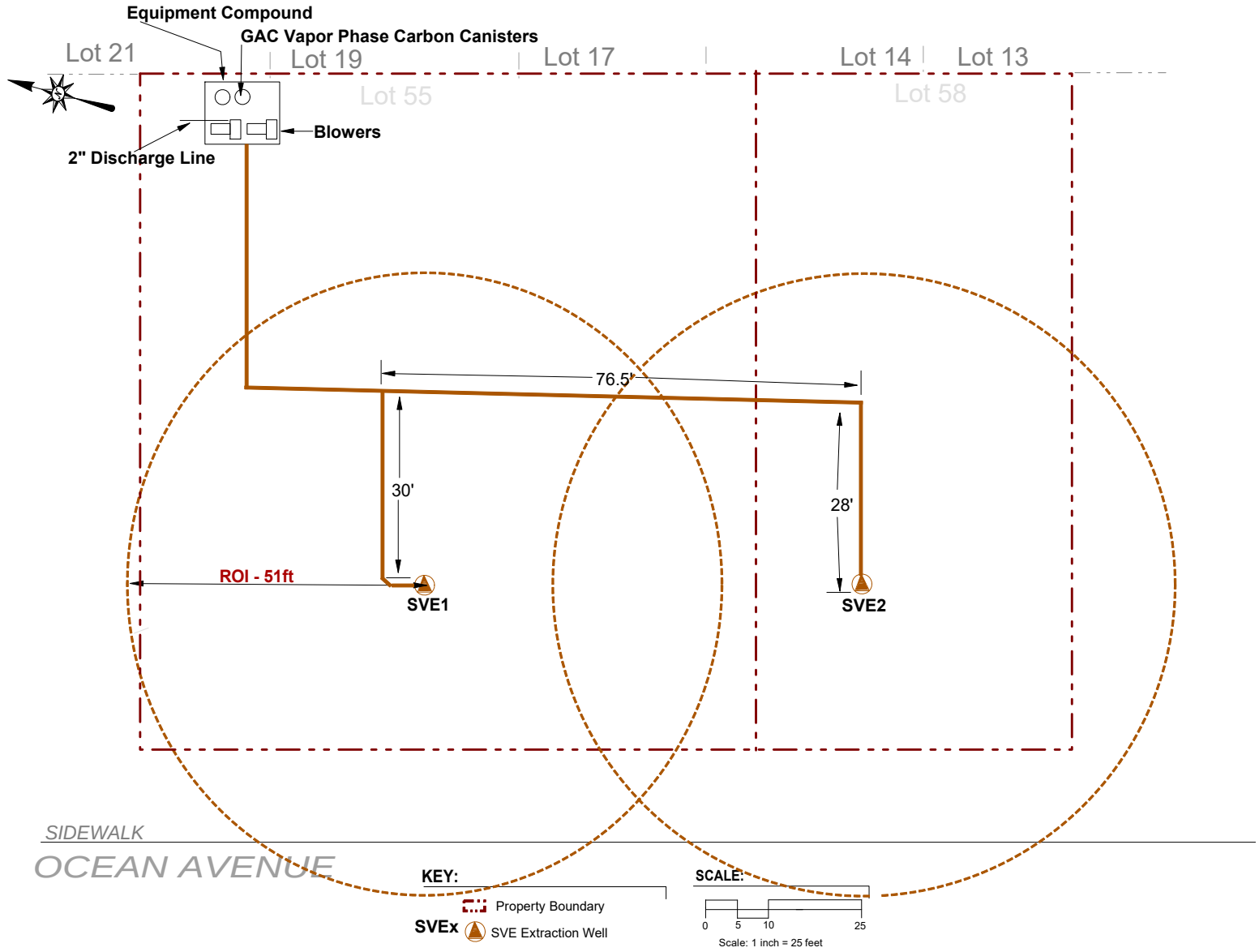
FIGURES



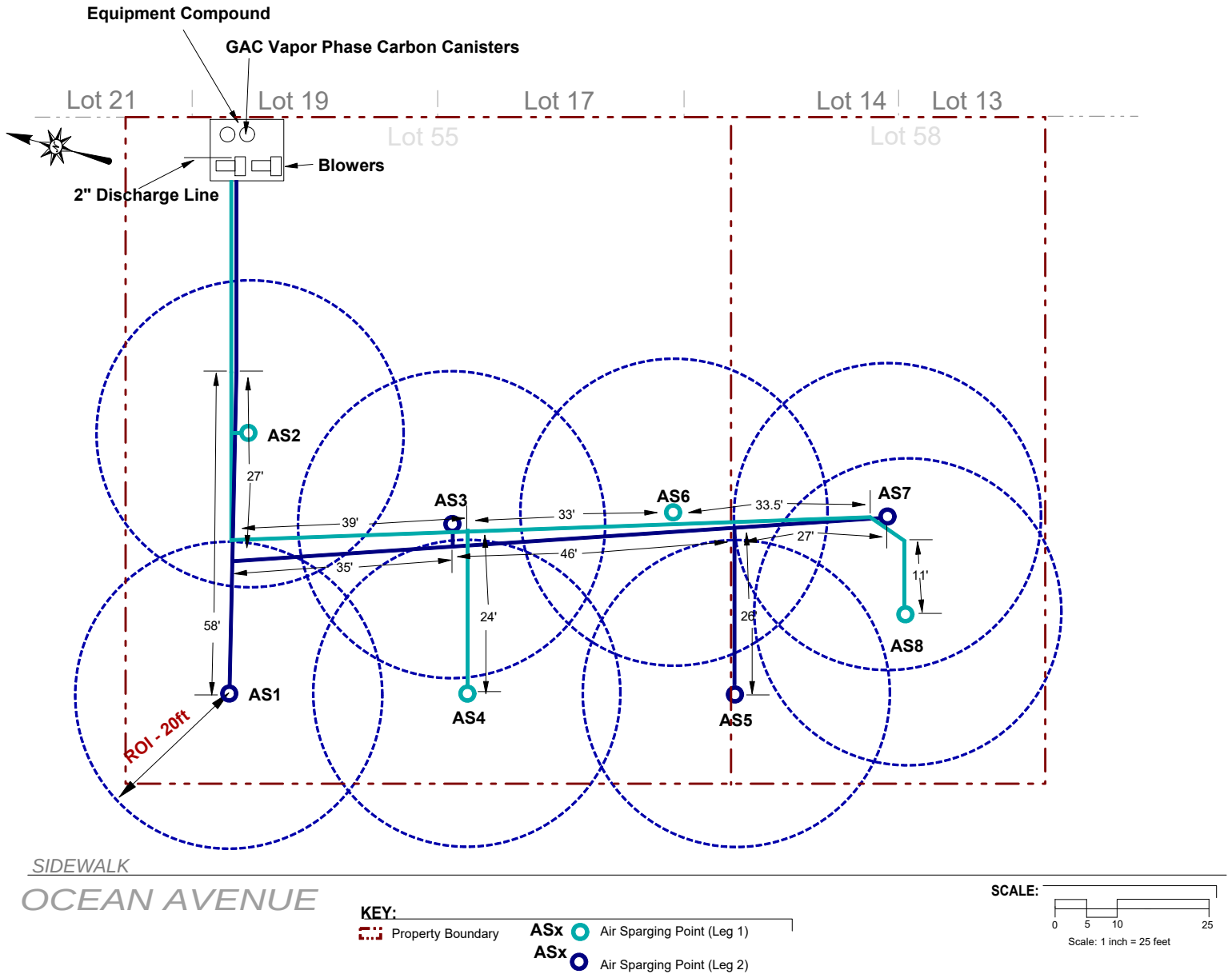
AMC Engineeting, PLLC
18-36 42nd Street
Astoria, NY 11105

Figure No.
5

Site Name: FORMER TOMAT SERVICE STATION
Site Address: 1815-1825 OCEAN AVENUE, BROOKLYN, NY
Drawing Title: MONITORING WELL LOCATIONS



AMC Engineeting, PLLC 18-36 42nd Street Astoria, NY 11105	*Figure No.* **9**	Site Name:	FORMER TOMAT SERVICE STATION
		Site Address:	1815-1825 OCEAN AVENUE, BROOKLYN, NY
		Drawing Title:	SOIL VAPOR EXTRACTION SYSTEM LAYOUT



AMC Engineeting, PLLC
18-36 42nd Street
Astoria, NY 11105

Figure No. **10**

Site Name:	FORMER TOMAT SERVICE STATION
Site Address:	1815-1825 OCEAN AVENUE, BROOKLYN, NY
Drawing Title:	AIR SPARGE SYSTEM LAYOUT

APPENDIX A

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORMS

GROUNDWATER PURGE / SAMPLE LOGS

1815 Ocean Ave, Brooklyn, NY

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 17GW2

Well Depth (from TOC): 30'

Static Water Level (from TOC): 20.80

Height of Water in Well: 9.20

Gallons of Water per Well Volume: .0920

Flow Rate: 400ml/min.

Date: 12/14/2018

Equipment: Peristaltic Pump, U-52 Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
9:20	400 ml/min	0	7.25	.631	16.26	11.83	-81	0437		Turbid
9:22		.33	7.06	.611	17.61	7.58	-85	412		Turbid
9:27		.88	6.89	.609	17.72	6.31	-83	150		Turbid
9:32		~~1.43~~ 1.43	6.81	.601	17.82	5.64	-80	62.4		Clear
9:37		1.98	6.78	.598	17.90	5.36	-77	36.0		Clear
9:42		2.53	6.77	.594	17.75	5.23	-75	28.1		Clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

1815 Ocean Ave, Brooklyn, NY

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 17@W2

Well Depth (from TOC): 20'

Static Water Level (from TOC): 10.08'

Height of Water in Well: 9.92'

Gallons of Water per Well Volume: .0992

Flow Rate: 400ml/min.

Date: 12/14/2018

Equipment: Peristaltic Pump, U-52 Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
12:41	400ml/min	0	6.75	.649	16.59	3.24	-28	532		turbid
12:44		.33	6.74	.628	17.16	1.87	-38	194		turbid
12:49		.88	6.72	.625	17.29	1.66	-40	114		turbid
12:54		1.43	6.71	.622	17.44	2.30	-40	69.0		turbid
12:59		1.98	6.70	.622	17.47	2.15	-41	43.0		Clear
1:04	↓	2.53	6.71	.621	17.46	2.12	-41	40.3		Clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

1815 Ocean Ave, Brooklyn, NY

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 17GW3

Date: 12/14/2018

Well Depth (from TOC): 21'

Equipment: Peristaltic Pump, U-52 Horiba

Static Water Level (from TOC): 11.24'

Height of Water in Well: 9.76'

Gallons of Water per Well Volume: .0976

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
1:28	400 ml/min	0	6.63	.792	16.21	1.17	-45	245		turbid
1:31		.33	6.51	.790	16.36	0.34	-30	105		turbid
1:36		.88	6.45	.801	16.49	0.09	-25	20.9		Clear
1:41		1.43	6.42	.796	16.53	0.17	-23	11.3		Clear
1:46		1.98	6.40	.793	16.56	0.36	-21	9.0		Clear
1:51	↓	2.53	6.38	.791	16.59	0.50	-20	9.1		Clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

1815 Ocean Ave, Brooklyn, NY

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 176W4

Well Depth (from TOC): 30'

Static Water Level (from TOC): 21.47

Height of Water in Well: 8.53

Gallons of Water per Well Volume: .0853

Flow Rate: 400ml/min.

Date: 12/14/2018

Equipment: Peristaltic Pump, U-52 Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
10:39	400 ml/min	0	6.89	.683	14.08	3.01	-46	950		turb.d
10:42		.33	6.90	.714	15.67	1.07	-87	168		turbid
10:47		.88	6.82	.753	15.16	.74	-98	75.8		turbid
10:52		1.43	6.86	.757	16.34	.46	-103	45.1		Clear
10:57		1.98	6.86	.756	16.37	.40	-105	24.9		Clear
11:02	↓	2.57	6.86	.760	16.44	.39	-106	14.5		Clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

1815 Ocean Ave, Brooklyn, NY

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 176WS

Well Depth (from TOC): 19.6'

Static Water Level (from TOC): 11.15

Height of Water in Well: 8.45

Gallons of Water per Well Volume: .0845

Flow Rate: 400ml/min.

Date: 12/14/2018

Equipment: Peristaltic Pump, U-52 Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
2:32	400 ml/min	0	6.76	.438	16.53	1.10	-55	155		turb.d
2:35	↓	.33	6.79	.428	16.59	.41	-72	84.5		turb.d
2:40	↓	.89	6.83	.416	16.65	.04	-97	29.9		clear
2:45	↓	1.43	6.84	.408	16.67	0	-109	21.3		clear
2:50	↓	1.98	6.84	.405	16.68	0	-112	19.2		Clear
2:55	↓	2.53	6.84	.403	16.69	0	-113	19.3		Clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

1815 Ocean Ave, Brooklyn, NY

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW17GW6

Date: 12/14/2018

Well Depth (from TOC): 21.00'

Equipment: Peristaltic Pump, U-52 Horiba

Static Water Level (from TOC): 11.18'

Height of Water in Well: 9.82'

Gallons of Water per Well Volume: .0982

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
11:43	400 ml/min	0	6.63	.679	15.87	1.46	23	627		Turb.d
11:46		.33	6.47	.668	16.89	2.00	44	281		Turb.d
11:51		.88	6.44	.656	17.27	2.05	17	94.2		Turb.d
11:56		1.43	6.44	.631	17.41	2.43	8	53.7		Clear
12:01		1.98	6.44	.626	17.45	2.71	6	34.6		Clear
12:06	↓	2.53	6.44	.621	17.50	2.61	4	24.2		Clear

Note 400 ml = 0.11 gallons

APPENDIX B

GROUNDWATER LABORATORY REPORTS

PHOENIX
Environmental Laboratories, Inc.

Friday, December 21, 2018

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 1815 OCEAN AVE BROOKLYN NY
Sample ID#s: CC15284 - CC15291

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

December 21, 2018

SDG I.D.: GCC15284

8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/FID method 504 or 8011 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 21, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DR	12/14/18	9:30
Location Code:	EBC	Received by:	SW	12/17/18	15:11
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC15284
Phoenix ID: CC15284

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	2.5	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,1-Dichloroethene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,1-Dichloropropene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	2.5	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,2,4-Trimethylbenzene	210	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.0	5.0	ug/L	10	12/18/18	MH	SW8260C	
1,2-Dibromoethane	ND	2.5	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	4.7	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,2-Dichloroethane	ND	5.0	5.0	ug/L	10	12/18/18	MH	SW8260C	
1,2-Dichloropropane	ND	2.5	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,3,5-Trimethylbenzene	18	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	3.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,3-Dichloropropane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
2,2-Dichloropropane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
2-Chlorotoluene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
2-Hexanone	ND	25	25	ug/L	10	12/18/18	MH	SW8260C	
2-Isopropyltoluene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	1
4-Chlorotoluene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	25	25	ug/L	10	12/18/18	MH	SW8260C	

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 1

Phoenix I.D.: CC15284

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	50	25	ug/L	10	12/18/18	MH	SW8260C	
Acrolein	ND	25	25	ug/L	10	12/18/18	MH	SW8260C	
Acrylonitrile	ND	5.0	5.0	ug/L	10	12/18/18	MH	SW8260C	
Benzene	ND	2.5	2.5	ug/L	10	12/18/18	MH	SW8260C	
Bromobenzene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Bromochloromethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Bromodichloromethane	ND	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
Bromoform	ND	50	2.5	ug/L	10	12/18/18	MH	SW8260C	
Bromomethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Carbon Disulfide	ND	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
Carbon tetrachloride	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Chlorobenzene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Chloroethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Chloroform	ND	7.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Chloromethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND	2.5	2.5	ug/L	10	12/18/18	MH	SW8260C	
Dibromochloromethane	ND	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
Dibromomethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Dichlorodifluoromethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Ethylbenzene	130	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
Hexachlorobutadiene	ND	2.0	2.0	ug/L	10	12/18/18	MH	SW8260C	
Isopropylbenzene	13	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
m&p-Xylene	63	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
Methyl ethyl ketone	ND	25	25	ug/L	10	12/18/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
Methylene chloride	ND	5.0	5.0	ug/L	10	12/18/18	MH	SW8260C	
Naphthalene	58	10	10	ug/L	10	12/18/18	MH	SW8260C	
n-Butylbenzene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
n-Propylbenzene	28	10	2.5	ug/L	10	12/18/18	MH	SW8260C	
o-Xylene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
p-Isopropyltoluene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
sec-Butylbenzene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Styrene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
tert-Butylbenzene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Tetrachloroethene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND	50	25	ug/L	10	12/18/18	MH	SW8260C	1
Toluene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND	2.5	2.5	ug/L	10	12/18/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	25	25	ug/L	10	12/18/18	MH	SW8260C	
Trichloroethene	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Trichlorofluoromethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Trichlorotrifluoroethane	ND	5.0	2.5	ug/L	10	12/18/18	MH	SW8260C	
Vinyl chloride	ND	2.5	2.5	ug/L	10	12/18/18	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	10	12/18/18	MH	70 - 130 %	
% Bromofluorobenzene	99			%	10	12/18/18	MH	70 - 130 %	
% Dibromofluoromethane	98			%	10	12/18/18	MH	70 - 130 %	

Ver 1

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 1

Phoenix I.D.: CC15284

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	10	12/18/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	1000		ug/l	10	12/18/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.0		ug/L	10	12/18/18	MH	SW8260C
Acrolein	ND	25		ug/L	10	12/18/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	10	12/18/18	MH	SW8260C
Tert-butyl alcohol	ND	500		ug/L	10	12/18/18	MH	SW8260C

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.

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 LOD=Limit of Detection MDL=Method Detection Limit1
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:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

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.

Phyllis Shiller, Laboratory Director
December 21, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 21, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DR	12/14/18	12:30
Location Code:	EBC	Received by:	SW	12/17/18	15:11
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC15284
Phoenix ID: CC15285

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 2

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1,1-Trichloroethane	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1-Dichloroethane	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1-Dichloropropene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,3-Trichloropropane	ND		0.25	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,4-Trimethylbenzene	0.62	J	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND		0.50	0.50	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dibromoethane	ND		0.25	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,3-Dichloropropane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
2,2-Dichloropropane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
2-Chlorotoluene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
2-Hexanone	ND		2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	
2-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	1
4-Chlorotoluene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
4-Methyl-2-pentanone	ND		2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 2

Phoenix I.D.: CC15285

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	2.5	JS	5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/18/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/18/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
m&p-Xylene	0.65	J	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/18/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	12/18/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
o-Xylene	0.27	J	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
sec-Butylbenzene	0.44	J	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/18/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	12/18/18	MH	70 - 130 %	
% Bromofluorobenzene	95				%	1	12/18/18	MH	70 - 130 %	
% Dibromofluoromethane	98				%	1	12/18/18	MH	70 - 130 %	

Ver 1

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 2

Phoenix I.D.: CC15285

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	97			%	1	12/18/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/18/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/18/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/18/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/18/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/18/18	MH	SW8260C

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.

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 J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
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.

S - Laboratory solvent, contamination is possible.

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

Phyllis Shiller, Laboratory Director
December 21, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 21, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DR	12/14/18	11:30
Location Code:	EBC	Received by:	SW	12/17/18	15:11
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC15284
Phoenix ID: CC15286

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 3

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,1,1-Trichloroethane	ND		5.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,1-Dichloroethane	ND		5.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,1-Dichloropropene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,2,3-Trichloropropane	ND		0.25	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,2,4-Trimethylbenzene	55		5.0	1.3	ug/L	5	12/18/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND		0.50	0.50	ug/L	1	12/19/18	MH	SW8260C	
1,2-Dibromoethane	ND		0.25	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	1	12/19/18	MH	SW8260C	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,3,5-Trimethylbenzene	5.1		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,3-Dichloropropane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
2,2-Dichloropropane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
2-Chlorotoluene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
2-Hexanone	ND		2.5	2.5	ug/L	1	12/19/18	MH	SW8260C	
2-Isopropyltoluene	0.43	J	1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	1
4-Chlorotoluene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
4-Methyl-2-pentanone	ND		2.5	2.5	ug/L	1	12/19/18	MH	SW8260C	

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 3

Phoenix I.D.: CC15286

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		5.0	2.5	ug/L	1	12/19/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/19/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/19/18	MH	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	12/19/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/19/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Ethylbenzene	9.8		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/19/18	MH	SW8260C	
Isopropylbenzene	2.1		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
m&p-Xylene	4.5		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/19/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/19/18	MH	SW8260C	
Naphthalene	4.5		1.0	1.0	ug/L	1	12/19/18	MH	SW8260C	
n-Butylbenzene	0.73	J	1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
n-Propylbenzene	5.1		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
o-Xylene	0.48	J	1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
p-Isopropyltoluene	0.64	J	1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
sec-Butylbenzene	0.59	J	1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/19/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/19/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/19/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	12/19/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	12/19/18	MH	70 - 130 %	
% Bromofluorobenzene	100				%	1	12/19/18	MH	70 - 130 %	
% Dibromofluoromethane	104				%	1	12/19/18	MH	70 - 130 %	

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 3

Phoenix I.D.: CC15286

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	12/19/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/19/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/19/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/19/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/19/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/19/18	MH	SW8260C

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.

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 J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
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.

Phyllis Shiller, Laboratory Director
December 21, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 21, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DR	12/14/18	10:30
Location Code:	EBC	Received by:	SW	12/17/18	15:11
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC15284
Phoenix ID: CC15287

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,4-Trimethylbenzene	16	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,3,5-Trimethylbenzene	1.1	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	
2-Isopropyltoluene	3.8	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 4

Phoenix I.D.: CC15287

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.0	JS	5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/18/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Ethylbenzene	1.9		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/18/18	MH	SW8260C	
Isopropylbenzene	13		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
m&p-Xylene	0.79	J	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/18/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	12/18/18	MH	SW8260C	
n-Butylbenzene	8.7		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
n-Propylbenzene	34		2.0	0.50	ug/L	2	12/19/18	MH	SW8260C	
o-Xylene	0.47	J	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
p-Isopropyltoluene	1.4		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
sec-Butylbenzene	6.1		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
tert-Butylbenzene	1.2		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Tetrachloroethene	0.64	J	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	1
Toluene	0.54	J	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/18/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	12/18/18	MH	70 - 130 %	
% Bromofluorobenzene	102				%	1	12/18/18	MH	70 - 130 %	
% Dibromofluoromethane	96				%	1	12/18/18	MH	70 - 130 %	

Ver 1

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 4

Phoenix I.D.: CC15287

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	12/18/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/18/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/18/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/18/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/18/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/18/18	MH	SW8260C

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.

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 J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
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.

S - Laboratory solvent, contamination is possible.

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

Phyllis Shiller, Laboratory Director
December 21, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 21, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DR	12/14/18	14:30
Location Code:	EBC	Received by:	SW	12/17/18	15:11
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC15284
Phoenix ID: CC15288

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 5

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1,1-Trichloroethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1,2-Trichloroethane	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1-Dichloroethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1-Dichloroethene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1-Dichloropropene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,3-Trichloropropane	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,4-Trimethylbenzene	110		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND		2.5	2.5	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dibromoethane	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dichlorobenzene	ND		4.7	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dichloroethane	ND		2.5	2.5	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dichloropropane	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,3,5-Trimethylbenzene	8.5		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,3-Dichlorobenzene	ND		3.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,3-Dichloropropane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,4-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
2,2-Dichloropropane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
2-Chlorotoluene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
2-Hexanone	ND		13	13	ug/L	5	12/19/18	MH	SW8260C	
2-Isopropyltoluene	4.8	J	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	1
4-Chlorotoluene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
4-Methyl-2-pentanone	ND		13	13	ug/L	5	12/19/18	MH	SW8260C	

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 5

Phoenix I.D.: CC15288

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	25	13	ug/L	5	12/19/18	MH	SW8260C	
Acrolein	ND	13	13	ug/L	5	12/19/18	MH	SW8260C	
Acrylonitrile	ND	5.0	5.0	ug/L	5	12/19/18	MH	SW8260C	
Benzene	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromobenzene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromochloromethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromodichloromethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromoform	ND	25	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromomethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Carbon Disulfide	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Carbon tetrachloride	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chlorobenzene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chloroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chloroform	ND	7.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chloromethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
Dibromochloromethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Dibromomethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Dichlorodifluoromethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Ethylbenzene	21	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Hexachlorobutadiene	ND	1.0	1.0	ug/L	5	12/19/18	MH	SW8260C	
Isopropylbenzene	43	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
m&p-Xylene	7.6	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Methyl ethyl ketone	ND	13	13	ug/L	5	12/19/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Methylene chloride	ND	5.0	5.0	ug/L	5	12/19/18	MH	SW8260C	
Naphthalene	63	5.0	5.0	ug/L	5	12/19/18	MH	SW8260C	
n-Butylbenzene	14	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
n-Propylbenzene	130	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
o-Xylene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
p-Isopropyltoluene	5.3	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
sec-Butylbenzene	9.2	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Styrene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
tert-Butylbenzene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Tetrachloroethene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND	25	13	ug/L	5	12/19/18	MH	SW8260C	1
Toluene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	13	13	ug/L	5	12/19/18	MH	SW8260C	
Trichloroethene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Trichlorofluoromethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Trichlorotrifluoroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Vinyl chloride	ND	2.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	5	12/19/18	MH	70 - 130 %	
% Bromofluorobenzene	98			%	5	12/19/18	MH	70 - 130 %	
% Dibromofluoromethane	100			%	5	12/19/18	MH	70 - 130 %	

Ver 1

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 5

Phoenix I.D.: CC15288

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100			%	5	12/19/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	500		ug/l	5	12/19/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.0		ug/L	5	12/19/18	MH	SW8260C
Acrolein	ND	13		ug/L	5	12/19/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	5	12/19/18	MH	SW8260C
Tert-butyl alcohol	ND	250		ug/L	5	12/19/18	MH	SW8260C

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.

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 J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
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:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

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.

Phyllis Shiller, Laboratory Director
December 21, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 21, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DR	12/14/18	13:30
Location Code:	EBC	Received by:	SW	12/17/18	15:11
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC15284
Phoenix ID: CC15289

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 6

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1-Dichloroethene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1-Dichloropropene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,4-Trimethylbenzene	190	20	5.0	ug/L	20	12/19/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	2.5	2.5	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dibromoethane	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	4.7	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dichloroethane	ND	2.5	2.5	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,3,5-Trimethylbenzene	36	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	3.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,3-Dichloropropane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
2,2-Dichloropropane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
2-Chlorotoluene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
2-Hexanone	ND	13	13	ug/L	5	12/19/18	MH	SW8260C	
2-Isopropyltoluene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	1
4-Chlorotoluene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	13	13	ug/L	5	12/19/18	MH	SW8260C	

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 6

Phoenix I.D.: CC15289

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		25	13	ug/L	5	12/19/18	MH	SW8260C	
Acrolein	ND		13	13	ug/L	5	12/19/18	MH	SW8260C	
Acrylonitrile	ND		5.0	5.0	ug/L	5	12/19/18	MH	SW8260C	
Benzene	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromobenzene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromochloromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromodichloromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromoform	ND		25	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromomethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Carbon Disulfide	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Carbon tetrachloride	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chlorobenzene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chloroethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chloroform	ND		7.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chloromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
Dibromochloromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Dibromomethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Dichlorodifluoromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Ethylbenzene	84		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Hexachlorobutadiene	ND		1.0	1.0	ug/L	5	12/19/18	MH	SW8260C	
Isopropylbenzene	7.0		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
m&p-Xylene	130		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Methyl ethyl ketone	ND		13	13	ug/L	5	12/19/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Methylene chloride	ND		5.0	5.0	ug/L	5	12/19/18	MH	SW8260C	
Naphthalene	36		5.0	5.0	ug/L	5	12/19/18	MH	SW8260C	
n-Butylbenzene	2.6	J	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
n-Propylbenzene	18		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
o-Xylene	9.9		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
p-Isopropyltoluene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
sec-Butylbenzene	1.6	J	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Styrene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
tert-Butylbenzene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Tetrachloroethene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		25	13	ug/L	5	12/19/18	MH	SW8260C	1
Toluene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		13	13	ug/L	5	12/19/18	MH	SW8260C	
Trichloroethene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Trichlorofluoromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Vinyl chloride	ND		2.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	101				%	5	12/19/18	MH	70 - 130 %	
% Bromofluorobenzene	98				%	5	12/19/18	MH	70 - 130 %	
% Dibromofluoromethane	101				%	5	12/19/18	MH	70 - 130 %	

Ver 1

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: 17 GW 6

Phoenix I.D.: CC15289

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102			%	5	12/19/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	500		ug/l	5	12/19/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.0		ug/L	5	12/19/18	MH	SW8260C
Acrolein	ND	13		ug/L	5	12/19/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	5	12/19/18	MH	SW8260C
Tert-butyl alcohol	ND	250		ug/L	5	12/19/18	MH	SW8260C

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.

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 J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
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:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

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.

Phyllis Shiller, Laboratory Director
December 21, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 21, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DR	12/14/18	
Location Code:	EBC	Received by:	SW	12/17/18	15:11
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC15284
Phoenix ID: CC15290

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1-Dichloroethene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,1-Dichloropropene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2,4-Trimethylbenzene	200	20	5.0	ug/L	20	12/19/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	2.5	2.5	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dibromoethane	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	4.7	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dichloroethane	ND	2.5	2.5	ug/L	5	12/19/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,3,5-Trimethylbenzene	21	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	3.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,3-Dichloropropane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
2,2-Dichloropropane	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
2-Chlorotoluene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
2-Hexanone	ND	13	13	ug/L	5	12/19/18	MH	SW8260C	
2-Isopropyltoluene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	1
4-Chlorotoluene	ND	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	13	13	ug/L	5	12/19/18	MH	SW8260C	

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: DUPLICATE

Phoenix I.D.: CC15290

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		25	13	ug/L	5	12/19/18	MH	SW8260C	
Acrolein	ND		13	13	ug/L	5	12/19/18	MH	SW8260C	
Acrylonitrile	ND		5.0	5.0	ug/L	5	12/19/18	MH	SW8260C	
Benzene	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromobenzene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromochloromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromodichloromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromoform	ND		25	1.3	ug/L	5	12/19/18	MH	SW8260C	
Bromomethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Carbon Disulfide	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Carbon tetrachloride	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chlorobenzene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chloroethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chloroform	ND		7.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Chloromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
Dibromochloromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Dibromomethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Dichlorodifluoromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Ethylbenzene	140		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Hexachlorobutadiene	ND		1.0	1.0	ug/L	5	12/19/18	MH	SW8260C	
Isopropylbenzene	15		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
m&p-Xylene	68		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Methyl ethyl ketone	ND		13	13	ug/L	5	12/19/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Methylene chloride	ND		5.0	5.0	ug/L	5	12/19/18	MH	SW8260C	
Naphthalene	63		5.0	5.0	ug/L	5	12/19/18	MH	SW8260C	
n-Butylbenzene	2.5	J	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
n-Propylbenzene	30		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
o-Xylene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
p-Isopropyltoluene	2.0	J	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
sec-Butylbenzene	1.8	J	5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Styrene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
tert-Butylbenzene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Tetrachloroethene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		25	13	ug/L	5	12/19/18	MH	SW8260C	1
Toluene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		1.3	1.3	ug/L	5	12/19/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		13	13	ug/L	5	12/19/18	MH	SW8260C	
Trichloroethene	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Trichlorofluoromethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		5.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
Vinyl chloride	ND		2.0	1.3	ug/L	5	12/19/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	5	12/19/18	MH	70 - 130 %	
% Bromofluorobenzene	98				%	5	12/19/18	MH	70 - 130 %	
% Dibromofluoromethane	104				%	5	12/19/18	MH	70 - 130 %	

Ver 1

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: DUPLICATE

Phoenix I.D.: CC15290

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100			%	5	12/19/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	500		ug/l	5	12/19/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.0		ug/L	5	12/19/18	MH	SW8260C
Acrolein	ND	13		ug/L	5	12/19/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	5	12/19/18	MH	SW8260C
Tert-butyl alcohol	ND	250		ug/L	5	12/19/18	MH	SW8260C

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.

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 J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
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:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

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.

Phyllis Shiller, Laboratory Director
December 21, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 21, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DR	12/14/18	
Location Code:	EBC	Received by:	SW	12/17/18	15:11
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC15284
Phoenix ID: CC15291

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/18/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: TRIP BLANK

Phoenix I.D.: CC15291

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/18/18	MH	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/18/18	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	12/18/18	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	12/18/18	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/18/18	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/18/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/18/18	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/18/18	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	12/18/18	MH	70 - 130 %	
% Bromofluorobenzene	95			%	1	12/18/18	MH	70 - 130 %	
% Dibromofluoromethane	100			%	1	12/18/18	MH	70 - 130 %	

Ver 1

Project ID: 1815 OCEAN AVE BROOKLYN NY
Client ID: TRIP BLANK

Phoenix I.D.: CC15291

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	12/18/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/18/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/18/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/18/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/18/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/18/18	MH	SW8260C

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.

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 LOD=Limit of Detection MDL=Method Detection Limit1
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.

Phyllis Shiller, Laboratory Director
December 21, 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

NY # 11301

QA/QC Report

December 21, 2018

QA/QC Data

SDG I.D.: GCC15284

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 460531 (ug/L), QC Sample No: CC14407 (CC15284 (10X))										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	114	119	4.3				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	102	104	1.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	113	113	0.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	110	112	1.8				70 - 130	30
1,1-Dichloroethane	ND	1.0	104	105	1.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	101	104	2.9				70 - 130	30
1,1-Dichloropropene	ND	1.0	102	105	2.9				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	105	108	2.8				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	102	106	3.8				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	105	110	4.7				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	105	109	3.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	109	119	8.8				70 - 130	30
1,2-Dibromoethane	ND	1.0	109	110	0.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	107	110	2.8				70 - 130	30
1,2-Dichloroethane	ND	1.0	107	109	1.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	105	109	3.7				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	106	108	1.9				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	107	110	2.8				70 - 130	30
1,3-Dichloropropane	ND	1.0	107	111	3.7				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	108	109	0.9				70 - 130	30
1,4-dioxane	ND	100	110	109	0.9				70 - 130	30
2,2-Dichloropropane	ND	1.0	108	110	1.8				70 - 130	30
2-Chlorotoluene	ND	1.0	108	112	3.6				70 - 130	30
2-Hexanone	ND	5.0	80	80	0.0				70 - 130	30
2-Isopropyltoluene	ND	1.0	100	102	2.0				70 - 130	30
4-Chlorotoluene	ND	1.0	106	110	3.7				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	87	84	3.5				70 - 130	30
Acetone	ND	5.0	66	67	1.5				70 - 130	30
Acrolein	ND	5.0	100	104	3.9				70 - 130	30
Acrylonitrile	ND	5.0	97	98	1.0				70 - 130	30
Benzene	ND	0.70	104	108	3.8				70 - 130	30
Bromobenzene	ND	1.0	109	112	2.7				70 - 130	30
Bromochloromethane	ND	1.0	105	108	2.8				70 - 130	30
Bromodichloromethane	ND	0.50	110	110	0.0				70 - 130	30
Bromoform	ND	1.0	117	120	2.5				70 - 130	30
Bromomethane	ND	1.0	70	73	4.2				70 - 130	30
Carbon Disulfide	ND	1.0	96	98	2.1				70 - 130	30
Carbon tetrachloride	ND	1.0	100	101	1.0				70 - 130	30
Chlorobenzene	ND	1.0	109	111	1.8				70 - 130	30
Chloroethane	ND	1.0	100	104	3.9				70 - 130	30
Chloroform	ND	1.0	99	102	3.0				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloromethane	ND	1.0	76	78	2.6				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	106	109	2.8				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	109	111	1.8				70 - 130	30
Dibromochloromethane	ND	0.50	120	123	2.5				70 - 130	30
Dibromomethane	ND	1.0	107	108	0.9				70 - 130	30
Dichlorodifluoromethane	ND	1.0	81	82	1.2				70 - 130	30
Ethylbenzene	ND	1.0	108	112	3.6				70 - 130	30
Hexachlorobutadiene	ND	0.40	104	109	4.7				70 - 130	30
Isopropylbenzene	ND	1.0	106	110	3.7				70 - 130	30
m&p-Xylene	ND	1.0	108	111	2.7				70 - 130	30
Methyl ethyl ketone	ND	5.0	83	82	1.2				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	97	98	1.0				70 - 130	30
Methylene chloride	ND	1.0	103	105	1.9				70 - 130	30
Naphthalene	ND	1.0	108	115	6.3				70 - 130	30
n-Butylbenzene	ND	1.0	104	106	1.9				70 - 130	30
n-Propylbenzene	ND	1.0	109	110	0.9				70 - 130	30
o-Xylene	ND	1.0	110	112	1.8				70 - 130	30
p-Isopropyltoluene	ND	1.0	106	108	1.9				70 - 130	30
sec-Butylbenzene	ND	1.0	108	112	3.6				70 - 130	30
Styrene	ND	1.0	110	113	2.7				70 - 130	30
tert-butyl alcohol	ND	10	120	116	3.4				70 - 130	30
tert-Butylbenzene	ND	1.0	105	108	2.8				70 - 130	30
Tetrachloroethene	ND	1.0	105	109	3.7				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	89	91	2.2				70 - 130	30
Toluene	ND	1.0	105	108	2.8				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	106	109	2.8				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	105	109	3.7				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	106	108	1.9				70 - 130	30
Trichloroethene	ND	1.0	108	111	2.7				70 - 130	30
Trichlorofluoromethane	ND	1.0	90	89	1.1				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	87	89	2.3				70 - 130	30
Vinyl chloride	ND	1.0	91	93	2.2				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	100	99	1.0				70 - 130	30
% Bromofluorobenzene	96	%	103	103	0.0				70 - 130	30
% Dibromofluoromethane	98	%	98	100	2.0				70 - 130	30
% Toluene-d8	100	%	101	101	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 460369 (ug/L), QC Sample No: CC14933 (CC15285, CC15287)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	102	107	4.8	113	115	1.8	70 - 130	30
1,1,1-Trichloroethane	ND	1.0	93	101	8.2	114	119	4.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	101	107	5.8	103	109	5.7	70 - 130	30
1,1,2-Trichloroethane	ND	1.0	97	104	7.0	104	109	4.7	70 - 130	30
1,1-Dichloroethane	ND	1.0	92	97	5.3	106	110	3.7	70 - 130	30
1,1-Dichloroethene	ND	1.0	98	104	5.9	125	126	0.8	70 - 130	30
1,1-Dichloropropene	ND	1.0	96	100	4.1	114	117	2.6	70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	96	105	9.0	76	100	27.3	70 - 130	30
1,2,3-Trichloropropane	ND	1.0	104	100	3.9	101	105	3.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	96	102	6.1	91	106	15.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	97	100	3.0	109	112	2.7	70 - 130	30

QA/QC Data

SDG I.D.: GCC15284

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dibromo-3-chloropropane	ND	1.0	103	117	12.7	101	116	13.8	70 - 130	30	
1,2-Dibromoethane	ND	1.0	99	103	4.0	102	106	3.8	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	98	101	3.0	102	109	6.6	70 - 130	30	
1,2-Dichloroethane	ND	1.0	96	102	6.1	103	108	4.7	70 - 130	30	
1,2-Dichloropropane	ND	1.0	94	98	4.2	103	105	1.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	98	100	2.0	112	114	1.8	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	98	99	1.0	106	109	2.8	70 - 130	30	
1,3-Dichloropropane	ND	1.0	97	102	5.0	102	103	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	97	100	3.0	103	108	4.7	70 - 130	30	
1,4-dioxane	ND	100	90	95	5.4	104	99	4.9	70 - 130	30	
2,2-Dichloropropane	ND	1.0	97	101	4.0	96	97	1.0	70 - 130	30	
2-Chlorotoluene	ND	1.0	100	100	0.0	112	114	1.8	70 - 130	30	
2-Hexanone	ND	5.0	71	73	2.8	73	74	1.4	70 - 130	30	
2-Isopropyltoluene	ND	1.0	94	93	1.1	103	105	1.9	70 - 130	30	
4-Chlorotoluene	ND	1.0	98	99	1.0	109	112	2.7	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	75	83	10.1	79	82	3.7	70 - 130	30	
Acetone	ND	5.0	63	68	7.6	77	77	0.0	70 - 130	30	l
Acrolein	ND	5.0	87	103	16.8	88	100	12.8	70 - 130	30	
Acrylonitrile	ND	5.0	86	94	8.9	90	100	10.5	70 - 130	30	
Benzene	ND	0.70	94	98	4.2	107	109	1.9	70 - 130	30	
Bromobenzene	ND	1.0	98	102	4.0	110	113	2.7	70 - 130	30	
Bromochloromethane	ND	1.0	94	101	7.2	102	106	3.8	70 - 130	30	
Bromodichloromethane	ND	0.50	95	102	7.1	104	112	7.4	70 - 130	30	
Bromoform	ND	1.0	104	112	7.4	106	114	7.3	70 - 130	30	
Bromomethane	ND	1.0	57	61	6.8	50	68	30.5	70 - 130	30	l,m
Carbon Disulfide	ND	1.0	91	96	5.3	109	115	5.4	70 - 130	30	
Carbon tetrachloride	ND	1.0	96	101	5.1	115	118	2.6	70 - 130	30	
Chlorobenzene	ND	1.0	97	99	2.0	108	110	1.8	70 - 130	30	
Chloroethane	ND	1.0	95	98	3.1	116	115	0.9	70 - 130	30	
Chloroform	ND	1.0	90	93	3.3	101	104	2.9	70 - 130	30	
Chloromethane	ND	1.0	73	77	5.3	87	88	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	99	100	1.0	nr	nr	NC	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	97	103	6.0	103	107	3.8	70 - 130	30	
Dibromochloromethane	ND	0.50	106	115	8.1	113	118	4.3	70 - 130	30	
Dibromomethane	ND	1.0	94	102	8.2	101	104	2.9	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	104	109	4.7	119	114	4.3	70 - 130	30	
Ethylbenzene	ND	1.0	98	100	2.0	112	113	0.9	70 - 130	30	
Hexachlorobutadiene	ND	0.40	104	103	1.0	104	115	10.0	70 - 130	30	
Isopropylbenzene	ND	1.0	100	101	1.0	116	118	1.7	70 - 130	30	
m&p-Xylene	ND	1.0	98	99	1.0	111	111	0.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	67	79	16.4	90	91	1.1	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	1.0	87	94	7.7	92	97	5.3	70 - 130	30	
Methylene chloride	ND	1.0	91	98	7.4	103	106	2.9	70 - 130	30	
Naphthalene	ND	1.0	99	109	9.6	80	103	25.1	70 - 130	30	
n-Butylbenzene	ND	1.0	99	99	0.0	107	111	3.7	70 - 130	30	
n-Propylbenzene	ND	1.0	101	102	1.0	115	118	2.6	70 - 130	30	
o-Xylene	ND	1.0	98	101	3.0	112	112	0.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	101	100	1.0	112	115	2.6	70 - 130	30	
sec-Butylbenzene	ND	1.0	103	103	0.0	119	123	3.3	70 - 130	30	
Styrene	ND	1.0	98	101	3.0	108	110	1.8	70 - 130	30	
tert-butyl alcohol	ND	10	92	100	8.3	107	98	8.8	70 - 130	30	
tert-Butylbenzene	ND	1.0	100	101	1.0	115	118	2.6	70 - 130	30	
Tetrachloroethene	ND	1.0	97	102	5.0	nr	nr	NC	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrahydrofuran (THF)	ND	2.5	81	92	12.7	82	89	8.2	70 - 130	30
Toluene	ND	1.0	95	100	5.1	110	110	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	96	100	4.1	116	118	1.7	70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	92	101	9.3	97	97	0.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	87	100	13.9	86	96	11.0	70 - 130	30
Trichloroethene	ND	1.0	98	99	1.0	127	124	2.4	70 - 130	30
Trichlorofluoromethane	ND	1.0	95	100	5.1	118	117	0.9	70 - 130	30
Trichlorotrifluoroethane	ND	1.0	92	94	2.2	105	103	1.9	70 - 130	30
Vinyl chloride	ND	1.0	92	97	5.3	115	117	1.7	70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	99	99	0.0	98	99	1.0	70 - 130	30
% Bromofluorobenzene	97	%	101	101	0.0	103	101	2.0	70 - 130	30
% Dibromofluoromethane	98	%	100	103	3.0	99	100	1.0	70 - 130	30
% Toluene-d8	100	%	100	101	1.0	101	101	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 460545 (ug/L), QC Sample No: CC14933 (CC15286 (5X) , CC15287 (2X) , CC15288 (5X) , CC15289 (20X) , CC15290 (20X) , CC15291)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	102	107	4.8	113	115	1.8	70 - 130	30
1,1,1-Trichloroethane	ND	1.0	93	101	8.2	114	119	4.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	101	107	5.8	103	109	5.7	70 - 130	30
1,1,2-Trichloroethane	ND	1.0	97	104	7.0	104	109	4.7	70 - 130	30
1,1-Dichloroethane	ND	1.0	92	97	5.3	106	110	3.7	70 - 130	30
1,1-Dichloroethene	ND	1.0	98	104	5.9	125	126	0.8	70 - 130	30
1,1-Dichloropropene	ND	1.0	96	100	4.1	114	117	2.6	70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	96	105	9.0	76	100	27.3	70 - 130	30
1,2,3-Trichloropropane	ND	1.0	104	100	3.9	101	105	3.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	96	102	6.1	91	106	15.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	97	100	3.0	109	112	2.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	103	117	12.7	101	116	13.8	70 - 130	30
1,2-Dibromoethane	ND	1.0	99	103	4.0	102	106	3.8	70 - 130	30
1,2-Dichlorobenzene	ND	1.0	98	101	3.0	102	109	6.6	70 - 130	30
1,2-Dichloroethane	ND	1.0	96	102	6.1	103	108	4.7	70 - 130	30
1,2-Dichloropropane	ND	1.0	94	98	4.2	103	105	1.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	98	100	2.0	112	114	1.8	70 - 130	30
1,3-Dichlorobenzene	ND	1.0	98	99	1.0	106	109	2.8	70 - 130	30
1,3-Dichloropropane	ND	1.0	97	102	5.0	102	103	1.0	70 - 130	30
1,4-Dichlorobenzene	ND	1.0	97	100	3.0	103	108	4.7	70 - 130	30
1,4-dioxane	ND	100	90	95	5.4	104	99	4.9	70 - 130	30
2,2-Dichloropropane	ND	1.0	97	101	4.0	96	97	1.0	70 - 130	30
2-Chlorotoluene	ND	1.0	100	100	0.0	112	114	1.8	70 - 130	30
2-Hexanone	ND	5.0	71	73	2.8	73	74	1.4	70 - 130	30
2-Isopropyltoluene	ND	1.0	94	93	1.1	103	105	1.9	70 - 130	30
4-Chlorotoluene	ND	1.0	98	99	1.0	109	112	2.7	70 - 130	30
4-Methyl-2-pentanone	ND	5.0	75	83	10.1	79	82	3.7	70 - 130	30
Acetone	ND	5.0	63	68	7.6	77	77	0.0	70 - 130	30
Acrolein	ND	5.0	87	103	16.8	88	100	12.8	70 - 130	30
Acrylonitrile	ND	5.0	86	94	8.9	90	100	10.5	70 - 130	30
Benzene	ND	0.70	94	98	4.2	107	109	1.9	70 - 130	30
Bromobenzene	ND	1.0	98	102	4.0	110	113	2.7	70 - 130	30
Bromochloromethane	ND	1.0	94	101	7.2	102	106	3.8	70 - 130	30

QA/QC Data

SDG I.D.: GCC15284

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromodichloromethane	ND	0.50	95	102	7.1	104	112	7.4	70 - 130	30	
Bromoform	ND	1.0	104	112	7.4	106	114	7.3	70 - 130	30	
Bromomethane	ND	1.0	57	61	6.8	50	68	30.5	70 - 130	30	l,m
Carbon Disulfide	ND	1.0	91	96	5.3	109	115	5.4	70 - 130	30	
Carbon tetrachloride	ND	1.0	96	101	5.1	115	118	2.6	70 - 130	30	
Chlorobenzene	ND	1.0	97	99	2.0	108	110	1.8	70 - 130	30	
Chloroethane	ND	1.0	95	98	3.1	116	115	0.9	70 - 130	30	
Chloroform	ND	1.0	90	93	3.3	101	104	2.9	70 - 130	30	
Chloromethane	ND	1.0	73	77	5.3	87	88	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	99	100	1.0	nr	nr	NC	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	97	103	6.0	103	107	3.8	70 - 130	30	
Dibromochloromethane	ND	0.50	106	115	8.1	113	118	4.3	70 - 130	30	
Dibromomethane	ND	1.0	94	102	8.2	101	104	2.9	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	104	109	4.7	119	114	4.3	70 - 130	30	
Ethylbenzene	ND	1.0	98	100	2.0	112	113	0.9	70 - 130	30	
Hexachlorobutadiene	ND	0.40	104	103	1.0	104	115	10.0	70 - 130	30	
Isopropylbenzene	ND	1.0	100	101	1.0	116	118	1.7	70 - 130	30	
m&p-Xylene	ND	1.0	98	99	1.0	111	111	0.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	67	79	16.4	90	91	1.1	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	1.0	87	94	7.7	92	97	5.3	70 - 130	30	
Methylene chloride	ND	1.0	91	98	7.4	103	106	2.9	70 - 130	30	
Naphthalene	ND	1.0	99	109	9.6	80	103	25.1	70 - 130	30	
n-Butylbenzene	ND	1.0	99	99	0.0	107	111	3.7	70 - 130	30	
n-Propylbenzene	ND	1.0	101	102	1.0	115	118	2.6	70 - 130	30	
o-Xylene	ND	1.0	98	101	3.0	112	112	0.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	101	100	1.0	112	115	2.6	70 - 130	30	
sec-Butylbenzene	ND	1.0	103	103	0.0	119	123	3.3	70 - 130	30	
Styrene	ND	1.0	98	101	3.0	108	110	1.8	70 - 130	30	
tert-butyl alcohol	ND	10	92	100	8.3	107	98	8.8	70 - 130	30	
tert-Butylbenzene	ND	1.0	100	101	1.0	115	118	2.6	70 - 130	30	
Tetrachloroethene	ND	1.0	97	102	5.0	nr	nr	NC	70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	81	92	12.7	82	89	8.2	70 - 130	30	
Toluene	ND	1.0	95	100	5.1	110	110	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	96	100	4.1	116	118	1.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	92	101	9.3	97	97	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	87	100	13.9	86	96	11.0	70 - 130	30	
Trichloroethene	ND	1.0	98	99	1.0	127	124	2.4	70 - 130	30	
Trichlorofluoromethane	ND	1.0	95	100	5.1	118	117	0.9	70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	92	94	2.2	105	103	1.9	70 - 130	30	
Vinyl chloride	ND	1.0	92	97	5.3	115	117	1.7	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	99	99	0.0	98	99	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	101	101	0.0	103	101	2.0	70 - 130	30	
% Dibromofluoromethane	98	%	100	103	3.0	99	100	1.0	70 - 130	30	
% Toluene-d8	100	%	100	101	1.0	101	101	0.0	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%.

QA/QC Batch 460749 (ug/L), QC Sample No: CC15423 (CC15286, CC15289 (5X))

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	108	111	2.7				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	99	100	1.0				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	105	107	1.9				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	100	101	1.0				70 - 130	30	

QA/QC Data

SDG I.D.: GCC15284

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Dichloroethane	ND	1.0	96	99	3.1				70 - 130	30	
1,1-Dichloroethene	ND	1.0	99	101	2.0				70 - 130	30	
1,1-Dichloropropene	ND	1.0	95	99	4.1				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	94	101	7.2				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	103	101	2.0				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	98	104	5.9				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	109	113	3.6				70 - 130	30	
1,2-Dibromoethane	ND	1.0	103	104	1.0				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	100	102	2.0				70 - 130	30	
1,2-Dichloroethane	ND	1.0	100	103	3.0				70 - 130	30	
1,2-Dichloropropane	ND	1.0	96	99	3.1				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	100	104	3.9				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	100	102	2.0				70 - 130	30	
1,3-Dichloropropane	ND	1.0	99	102	3.0				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	99	101	2.0				70 - 130	30	
1,4-dioxane	ND	100	89	92	3.3				70 - 130	30	
2,2-Dichloropropane	ND	1.0	101	103	2.0				70 - 130	30	
2-Chlorotoluene	ND	1.0	103	104	1.0				70 - 130	30	
2-Hexanone	ND	5.0	76	75	1.3				70 - 130	30	
2-Isopropyltoluene	ND	1.0	93	96	3.2				70 - 130	30	
4-Chlorotoluene	ND	1.0	101	104	2.9				70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	77	84	8.7				70 - 130	30	
Acetone	ND	5.0	65	65	0.0				70 - 130	30	I
Acrolein	ND	5.0	99	100	1.0				70 - 130	30	
Acrylonitrile	ND	5.0	89	94	5.5				70 - 130	30	
Benzene	ND	0.70	96	100	4.1				70 - 130	30	
Bromobenzene	ND	1.0	104	105	1.0				70 - 130	30	
Bromochloromethane	ND	1.0	99	102	3.0				70 - 130	30	
Bromodichloromethane	ND	0.50	101	106	4.8				70 - 130	30	
Bromoform	ND	1.0	110	113	2.7				70 - 130	30	
Bromomethane	ND	1.0	63	68	7.6				70 - 130	30	I
Carbon Disulfide	ND	1.0	92	92	0.0				70 - 130	30	
Carbon tetrachloride	ND	1.0	97	101	4.0				70 - 130	30	
Chlorobenzene	ND	1.0	101	104	2.9				70 - 130	30	
Chloroethane	ND	1.0	97	98	1.0				70 - 130	30	
Chloroform	ND	1.0	92	98	6.3				70 - 130	30	
Chloromethane	ND	1.0	73	75	2.7				70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	99	104	4.9				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	101	101	0.0				70 - 130	30	
Dibromochloromethane	ND	0.50	108	116	7.1				70 - 130	30	
Dibromomethane	ND	1.0	96	100	4.1				70 - 130	30	
Dichlorodifluoromethane	ND	1.0	91	91	0.0				70 - 130	30	
Ethylbenzene	ND	1.0	102	104	1.9				70 - 130	30	
Hexachlorobutadiene	ND	0.40	101	105	3.9				70 - 130	30	
Isopropylbenzene	ND	1.0	103	105	1.9				70 - 130	30	
m&p-Xylene	ND	1.0	101	103	2.0				70 - 130	30	
Methyl ethyl ketone	ND	5.0	72	74	2.7				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	91	92	1.1				70 - 130	30	
Methylene chloride	ND	1.0	97	99	2.0				70 - 130	30	
Naphthalene	ND	1.0	99	103	4.0				70 - 130	30	
n-Butylbenzene	ND	1.0	97	100	3.0				70 - 130	30	
n-Propylbenzene	ND	1.0	103	105	1.9				70 - 130	30	
o-Xylene	ND	1.0	103	105	1.9				70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
p-Isopropyltoluene	ND	1.0	100	102	2.0				70 - 130	30
sec-Butylbenzene	ND	1.0	103	106	2.9				70 - 130	30
Styrene	ND	1.0	101	105	3.9				70 - 130	30
tert-butyl alcohol	ND	10	108	103	4.7				70 - 130	30
tert-Butylbenzene	ND	1.0	101	103	2.0				70 - 130	30
Tetrachloroethene	ND	1.0	100	100	0.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	87	87	0.0				70 - 130	30
Toluene	ND	1.0	98	102	4.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	100	100	0.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	97	102	5.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	97	100	3.0				70 - 130	30
Trichloroethene	ND	1.0	101	102	1.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	94	94	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	88	92	4.4				70 - 130	30
Vinyl chloride	ND	1.0	93	93	0.0				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	99	100	1.0				70 - 130	30
% Bromofluorobenzene	95	%	103	102	1.0				70 - 130	30
% Dibromofluoromethane	102	%	99	99	0.0				70 - 130	30
% Toluene-d8	100	%	100	101	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 460758 (ug/L), QC Sample No: CC15954 (CC15290 (5X))

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	94	94	0.0				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	88	90	2.2				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	89	93	4.4				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	85	91	6.8				70 - 130	30
1,1-Dichloroethane	ND	1.0	83	84	1.2				70 - 130	30
1,1-Dichloroethene	ND	1.0	90	92	2.2				70 - 130	30
1,1-Dichloropropene	ND	1.0	87	88	1.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	84	90	6.9				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	85	90	5.7				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	85	90	5.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	88	89	1.1				70 - 130	30
1,2-Dibromoethane	ND	1.0	87	93	6.7				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	88	89	1.1				70 - 130	30
1,2-Dichloroethane	ND	1.0	86	91	5.6				70 - 130	30
1,2-Dichloropropane	ND	1.0	83	85	2.4				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	90	89	1.1				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	89	89	0.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	83	90	8.1				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	87	88	1.1				70 - 130	30
1,4-dioxane	ND	100	82	101	20.8				70 - 130	30
2,2-Dichloropropane	ND	1.0	83	83	0.0				70 - 130	30
2-Chlorotoluene	ND	1.0	91	91	0.0				70 - 130	30
2-Hexanone	ND	5.0	70	71	1.4				70 - 130	30
2-Isopropyltoluene	ND	1.0	99	97	2.0				70 - 130	30
4-Chlorotoluene	ND	1.0	90	89	1.1				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	72	77	6.7				70 - 130	30
Acetone	ND	5.0	61	61	0.0				70 - 130	30
Acrolein	ND	5.0	89	92	3.3				70 - 130	30

QA/QC Data

SDG I.D.: GCC15284

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Acrylonitrile	ND	5.0	86	91	5.6				70 - 130	30
Benzene	ND	0.70	85	86	1.2				70 - 130	30
Bromobenzene	ND	1.0	91	91	0.0				70 - 130	30
Bromochloromethane	ND	1.0	83	87	4.7				70 - 130	30
Bromodichloromethane	ND	0.50	87	92	5.6				70 - 130	30
Bromoform	ND	1.0	92	99	7.3				70 - 130	30
Bromomethane	ND	1.0	75	76	1.3				70 - 130	30
Carbon Disulfide	ND	1.0	94	94	0.0				70 - 130	30
Carbon tetrachloride	ND	1.0	88	89	1.1				70 - 130	30
Chlorobenzene	ND	1.0	88	89	1.1				70 - 130	30
Chloroethane	ND	1.0	109	109	0.0				70 - 130	30
Chloroform	ND	1.0	80	82	2.5				70 - 130	30
Chloromethane	ND	1.0	84	84	0.0				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	84	89	5.8				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	86	88	2.3				70 - 130	30
Dibromochloromethane	ND	0.50	97	99	2.0				70 - 130	30
Dibromomethane	ND	1.0	84	89	5.8				70 - 130	30
Dichlorodifluoromethane	ND	1.0	120	120	0.0				70 - 130	30
Ethylbenzene	ND	1.0	90	90	0.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	95	94	1.1				70 - 130	30
Isopropylbenzene	ND	1.0	93	91	2.2				70 - 130	30
m&p-Xylene	ND	1.0	90	88	2.2				70 - 130	30
Methyl ethyl ketone	ND	5.0	76	83	8.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	85	89	4.6				70 - 130	30
Methylene chloride	ND	1.0	83	84	1.2				70 - 130	30
Naphthalene	ND	1.0	84	90	6.9				70 - 130	30
n-Butylbenzene	ND	1.0	90	87	3.4				70 - 130	30
n-Propylbenzene	ND	1.0	94	91	3.2				70 - 130	30
o-Xylene	ND	1.0	90	90	0.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	92	89	3.3				70 - 130	30
sec-Butylbenzene	ND	1.0	96	94	2.1				70 - 130	30
Styrene	ND	1.0	89	90	1.1				70 - 130	30
tert-butyl alcohol	ND	10	103	114	10.1				70 - 130	30
tert-Butylbenzene	ND	1.0	92	89	3.3				70 - 130	30
Tetrachloroethene	ND	1.0	90	90	0.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	80	88	9.5				70 - 130	30
Toluene	ND	1.0	87	87	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	84	84	0.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	81	87	7.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	93	97	4.2				70 - 130	30
Trichloroethene	ND	1.0	88	91	3.4				70 - 130	30
Trichlorofluoromethane	ND	1.0	113	113	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	100	99	1.0				70 - 130	30
Vinyl chloride	ND	1.0	107	106	0.9				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	99	98	1.0				70 - 130	30
% Bromofluorobenzene	97	%	102	101	1.0				70 - 130	30
% Dibromofluoromethane	103	%	97	100	3.0				70 - 130	30
% Toluene-d8	98	%	99	101	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%.

QA/QC Data

SDG I.D.: GCC15284

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

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD 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
December 21, 2018

Friday, December 21, 2018

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCC15284 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC15284	$8260DP25R	Naphthalene	NY / TAGM - Semi-Volatiles / Groundwater Standards	58	10	10	10	ug/L
CC15284	$8260DP25R	Ethylbenzene	NY / TAGM - Volatile Organics / Groundwater Standards	130	10	5	5	ug/L
CC15284	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	2.5	2	2	ug/L
CC15284	$8260DP25R	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	58	10	5	5	ug/L
CC15284	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	2.5	0.7	0.7	ug/L
CC15284	$8260DP25R	trans-1,4-dichloro-2-butene	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
CC15284	$8260DP25R	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.4	0.4	ug/L
CC15284	$8260DP25R	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	28	10	5	5	ug/L
CC15284	$8260DP25R	Naphthalene	NY / TOGS - Water Quality / GA Criteria	58	10	10	10	ug/L
CC15284	$8260DP25R	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	13	10	5	5	ug/L
CC15284	$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.5	0.5	ug/L
CC15284	$8260DP25R	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	1	1	ug/L
CC15284	$8260DP25R	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.4	0.4	ug/L
CC15284	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	ND	2.5	2	2	ug/L
CC15284	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	2.5	1	1	ug/L
CC15284	$8260DP25R	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
CC15284	$8260DP25R	1,3,5-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	18	10	5	5	ug/L
CC15284	$8260DP25R	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	1	1	ug/L
CC15284	$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.6	0.6	ug/L
CC15284	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.0006	0.0006	ug/L
CC15284	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.04	0.04	ug/L
CC15284	$8260DP25R	1,2,4-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	210	10	5	5	ug/L
CC15284	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.04	0.04	ug/L
CC15284	$8260DP25R	Ethylbenzene	NY / TOGS - Water Quality / GA Criteria	130	10	5	5	ug/L
CC15284	$NJADD-WM	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
CC15285	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC15285	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CC15285	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC15286	$8260DP25R	Ethylbenzene	NY / TAGM - Volatile Organics / Groundwater Standards	9.8	1.0	5	5	ug/L
CC15286	$8260DP25R	Ethylbenzene	NY / TOGS - Water Quality / GA Criteria	9.8	1.0	5	5	ug/L
CC15286	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC15286	$8260DP25R	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	5.1	1.0	5	5	ug/L
CC15286	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CC15286	$8260DP25R	1,2,4-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	55	5.0	5	5	ug/L
CC15286	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC15286	$8260DP25R	1,3,5-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	5.1	1.0	5	5	ug/L
CC15287	$8260DP25R	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	13	1.0	5	5	ug/L
CC15287	$8260DP25R	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	34	2.0	5	5	ug/L
CC15287	$8260DP25R	sec-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	6.1	1.0	5	5	ug/L
CC15287	$8260DP25R	n-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	8.7	1.0	5	5	ug/L

Friday, December 21, 2018

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCC15284 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC15287	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC15287	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CC15287	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC15287	$8260DP25R	1,2,4-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	16	1.0	5	5	ug/L
CC15288	$8260DP25R	Naphthalene	NY / TAGM - Semi-Volatiles / Groundwater Standards	63	5.0	10	10	ug/L
CC15288	$8260DP25R	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	63	5.0	5	5	ug/L
CC15288	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	1.3	0.7	0.7	ug/L
CC15288	$8260DP25R	Ethylbenzene	NY / TAGM - Volatile Organics / Groundwater Standards	21	5.0	5	5	ug/L
CC15288	$8260DP25R	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.4	0.4	ug/L
CC15288	$8260DP25R	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	43	5.0	5	5	ug/L
CC15288	$8260DP25R	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CC15288	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.04	0.04	ug/L
CC15288	$8260DP25R	1,2,4-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	110	5.0	5	5	ug/L
CC15288	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.04	0.04	ug/L
CC15288	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.0006	0.0006	ug/L
CC15288	$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.6	0.6	ug/L
CC15288	$8260DP25R	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CC15288	$8260DP25R	1,3,5-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	8.5	5.0	5	5	ug/L
CC15288	$8260DP25R	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CC15288	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CC15288	$8260DP25R	Ethylbenzene	NY / TOGS - Water Quality / GA Criteria	21	5.0	5	5	ug/L
CC15288	$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	ug/L
CC15288	$8260DP25R	p-Isopropyltoluene	NY / TOGS - Water Quality / GA Criteria	5.3	5.0	5	5	ug/L
CC15288	$8260DP25R	trans-1,4-dichloro-2-butene	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CC15288	$8260DP25R	sec-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	9.2	5.0	5	5	ug/L
CC15288	$8260DP25R	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	130	5.0	5	5	ug/L
CC15288	$8260DP25R	n-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	14	5.0	5	5	ug/L
CC15288	$8260DP25R	Naphthalene	NY / TOGS - Water Quality / GA Criteria	63	5.0	10	10	ug/L
CC15288	$8260DP25R	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.4	0.4	ug/L
CC15288	$NJADD-WM	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CC15289	$8260DP25R	Naphthalene	NY / TAGM - Semi-Volatiles / Groundwater Standards	36	5.0	10	10	ug/L
CC15289	$8260DP25R	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	36	5.0	5	5	ug/L
CC15289	$8260DP25R	Ethylbenzene	NY / TAGM - Volatile Organics / Groundwater Standards	84	5.0	5	5	ug/L
CC15289	$8260DP25R	o-Xylene	NY / TAGM - Volatile Organics / Groundwater Standards	9.9	5.0	5	5	ug/L
CC15289	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	1.3	0.7	0.7	ug/L
CC15289	$8260DP25R	o-Xylene	NY / TOGS - Water Quality / GA Criteria	9.9	5.0	5	5	ug/L
CC15289	$8260DP25R	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	18	5.0	5	5	ug/L
CC15289	$8260DP25R	Ethylbenzene	NY / TOGS - Water Quality / GA Criteria	84	5.0	5	5	ug/L
CC15289	$8260DP25R	Naphthalene	NY / TOGS - Water Quality / GA Criteria	36	5.0	10	10	ug/L
CC15289	$8260DP25R	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.4	0.4	ug/L

Sample Criteria Exceedances Report

Criteria: NY: GW

State: NY

GCC15284 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC15289	$8260DP25R	trans-1,4-dichloro-2-butene	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CC15289	$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	ug/L
CC15289	$8260DP25R	1,2,4-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	190	20	5	5	ug/L
CC15289	$8260DP25R	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CC15289	$8260DP25R	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	7.0	5.0	5	5	ug/L
CC15289	$8260DP25R	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.4	0.4	ug/L
CC15289	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.04	0.04	ug/L
CC15289	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.04	0.04	ug/L
CC15289	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.0006	0.0006	ug/L
CC15289	$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.6	0.6	ug/L
CC15289	$8260DP25R	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CC15289	$8260DP25R	1,3,5-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	36	5.0	5	5	ug/L
CC15289	$8260DP25R	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CC15289	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CC15289	$NJADD-WM	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CC15290	$8260DP25R	Naphthalene	NY / TAGM - Semi-Volatiles / Groundwater Standards	63	5.0	10	10	ug/L
CC15290	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	1.3	0.7	0.7	ug/L
CC15290	$8260DP25R	Ethylbenzene	NY / TAGM - Volatile Organics / Groundwater Standards	140	5.0	5	5	ug/L
CC15290	$8260DP25R	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	63	5.0	5	5	ug/L
CC15290	$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	ug/L
CC15290	$8260DP25R	Ethylbenzene	NY / TOGS - Water Quality / GA Criteria	140	5.0	5	5	ug/L
CC15290	$8260DP25R	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	15	5.0	5	5	ug/L
CC15290	$8260DP25R	Naphthalene	NY / TOGS - Water Quality / GA Criteria	63	5.0	10	10	ug/L
CC15290	$8260DP25R	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.4	0.4	ug/L
CC15290	$8260DP25R	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CC15290	$8260DP25R	trans-1,4-dichloro-2-butene	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CC15290	$8260DP25R	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	30	5.0	5	5	ug/L
CC15290	$8260DP25R	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.4	0.4	ug/L
CC15290	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CC15290	$8260DP25R	1,3,5-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	21	5.0	5	5	ug/L
CC15290	$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.6	0.6	ug/L
CC15290	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.0006	0.0006	ug/L
CC15290	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.04	0.04	ug/L
CC15290	$8260DP25R	1,2,4-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	200	20	5	5	ug/L
CC15290	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.04	0.04	ug/L
CC15290	$8260DP25R	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CC15290	$8260DP25R	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CC15290	$NJADD-WM	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CC15291	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC15291	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L

Friday, December 21, 2018

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCC15284 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC15291	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	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.

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

NY # 11301

Analysis Comments

December 21, 2018 SDG I.D.: GCC15284

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

VOA Narration

CHEM02 12/17/18-2: CC15285, CC15287

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 29% (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 0.028 (0.05), 2-Hexanone 0.085 (0.1), Acetone 0.057 (0.1), Acrolein 0.021 (0.05), Bromoform 0.084 (0.1), Methyl ethyl ketone 0.070 (0.1), Tetrahydrofuran (THF) 0.042 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: 2-Hexanone 32%L (30%), Methyl ethyl ketone 33%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.212 (0.3), 1,2-Dibromo-3-chloropropane 0.025 (0.05), Acrolein 0.019 (0.05), Acrylonitrile 0.044 (0.05), Bromoform 0.075 (0.1), Tetrahydrofuran (THF) 0.034 (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%.

CHEM02 12/18/18-1: CC15284

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 29% (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 0.028 (0.05), 2-Hexanone 0.085 (0.1), Acetone 0.057 (0.1), Acrolein 0.021 (0.05), Bromoform 0.084 (0.1), Methyl ethyl ketone 0.070 (0.1), Tetrahydrofuran (THF) 0.042 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 35%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.239 (0.3), 1,2-Dibromo-3-chloropropane 0.027 (0.05), Acrolein 0.021 (0.05), Acrylonitrile 0.049 (0.05), Bromoform 0.083 (0.1), Tetrahydrofuran (THF) 0.035 (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%.

CHEM02 12/18/18-2: CC15286, CC15287, CC15288, CC15289, CC15290, CC15291

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

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Analysis Comments

December 21, 2018 SDG I.D.: GCC15284

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 29% (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 0.028 (0.05), 2-Hexanone 0.085 (0.1), Acetone 0.057 (0.1), Acrolein 0.021 (0.05), Bromoform 0.084 (0.1), Methyl ethyl ketone 0.070 (0.1), Tetrahydrofuran (THF) 0.042 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Bromomethane 39%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.247 (0.3), 1,2-Dibromo-3-chloropropane 0.029 (0.05), Acrolein 0.022 (0.05), Bromoform 0.087 (0.1), Tetrahydrofuran (THF) 0.038 (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%.

CHEM02 12/19/18-1: CC15286, CC15289

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 29% (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 0.028 (0.05), 2-Hexanone 0.085 (0.1), Acetone 0.057 (0.1), Acrolein 0.021 (0.05), Bromoform 0.084 (0.1), Methyl ethyl ketone 0.070 (0.1), Tetrahydrofuran (THF) 0.042 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 39%L (30%), Bromomethane 39%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.237 (0.3), 1,2-Dibromo-3-chloropropane 0.027 (0.05), Acrolein 0.021 (0.05), Bromoform 0.084 (0.1), Tetrahydrofuran (THF) 0.037 (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%.

CHEM02 12/19/18-2: CC15290

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 29% (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 0.028 (0.05), 2-Hexanone 0.085 (0.1), Acetone 0.057 (0.1), Acrolein 0.021 (0.05), Bromoform 0.084 (0.1), Methyl ethyl ketone 0.070 (0.1), Tetrahydrofuran (THF) 0.042 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: 2-Hexanone 34%L (30%), Acetone 40%L (30%), Bromomethane 38%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.220 (0.3), 1,2-Dibromo-3-chloropropane 0.026 (0.05), Acrolein 0.018 (0.05), Acrylonitrile 0.045 (0.05), Bromoform 0.079 (0.1), Tetrahydrofuran (THF) 0.033 (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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NY Temperature Narration

December 21, 2018

SDG I.D.: GCC15284

The samples in this delivery group were received at 1.2°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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

PHOENIX
Environmental Laboratories, Inc.

NY/NJ 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°C Pg 1 of 1

Contact Options:
[ ] Fax:
[ ] Phone: 631-504-6000
[X] Email: File

Customer: Environmental Business Consultants
Address: 1808 Middle Country Road
Ridge, NY 11961

Project: 1915 Ocean Ave, Brooklyn, NY
Report to: Environmental Business Consultants
Invoice to: Environmental Business Consultants

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: David Rutkin Date: 12-14-18

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's 8260

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC's 8260	Soil VOA Vials [ ]	GL Soil container [ ] 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
15284	17GW1	GW	12-14-18	9:30	X					3						
15285	17GW2			12:36	X					3						
15286	17GW3			11:30	X					3						
15287	17GW4			10:30	X					3						
15288	17GW5			2:30	X					3						
15289	17GW6			1:30	X					3						
15290	Duplicates				X					3						
15291	Trip blanks				X					2						

Relinquished by:	Accepted by:	Date:	Time:
David Rutkin	R Cruz	12/17/18	12:09
R Cruz	TRANSIT	12/17/18	15:11

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[X] NY 375 GWP
[ ] NY375 Unrestricted Use Soil
[ ] NY375 Residential Soil
[ ] Restricted/Residential
[ ] Commercial
[ ] Industrial

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

Data Package
[ ] NJ Reduced Deliv. *
[ ] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

APPENDIX C

AIR SAMPLE LABORATORY REPORTS

PHOENIX
Environmental Laboratories, Inc.

Wednesday, December 19, 2018

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 1815 OCEAN AVE, BROOKLYN NY
Sample ID#s: CC16342 - CC16343

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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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

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Environmental Business Consultants

Project: 1815 OCEAN AVE, BROOKLYN NY

Laboratory Project: GCC16342

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

December 19, 2018 **SDG I.D.: GCC16342**

Environmental Business Consultants 1815 OCEAN AVE, BROOKLYN NY

Methodology Summary

Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.

Sample Id Cross Reference

Client Id	Lab Id	Matrix
PRE CARBON	CC16342	AIR
POST CARBON	CC16343	AIR

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

December 19, 2018 **SDG I.D.: GCC16342**

Environmental Business Consultants 1815 OCEAN AVE, BROOKLYN NY

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CC16342	Volatiles (TO15)	12/17/18	12/18/18	12/18/18	KCA	Y
CC16343	Volatiles (TO15)	12/17/18	12/18/18	12/18/18	KCA	Y

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

December 19, 2018

SDG I.D.: GCC16342

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DR	12/17/18	8:30
Location Code:	EBC	Received by:	CP	12/18/18	14:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	28602				

Laboratory Data

SDG ID: GCC16342
Phoenix ID: CC16342

Project ID: 1815 OCEAN AVE, BROOKLYN NY
Client ID: PRE CARBON

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	12/18/18	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	12/18/18	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	12/18/18	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	12/18/18	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	12/18/18	KCA	1	
1,1-Dichloroethene	ND	*0.051*	0.051	ND	*0.20*	0.20	12/18/18	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2,4-Trimethylbenzene	15.5	*0.204*	0.204	76.2	*1.00*	1.00	12/18/18	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	12/18/18	KCA	1	
1,3,5-Trimethylbenzene	19.5	*0.204*	0.204	95.8	*1.00*	1.00	12/18/18	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	12/18/18	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	12/18/18	KCA	1	
1,4-Dichlorobenzene	0.469	*0.166*	0.166	2.82	*1.00*	1.00	12/18/18	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	12/18/18	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	12/18/18	KCA	1	1
4-Ethyltoluene	22.8	*0.204*	0.204	112	*1.00*	1.00	12/18/18	KCA	1	1
4-Isopropyltoluene	2.21	*0.182*	0.182	12.1	*1.00*	1.00	12/18/18	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	12/18/18	KCA	1	
Acetone	5.65	*0.421*	0.421	13.4	*1.00*	1.00	12/18/18	KCA	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	12/18/18	KCA	1	
Benzene	0.507	*0.313*	0.313	1.62	*1.00*	1.00	12/18/18	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	12/18/18	KCA	1	

Project ID: 1815 OCEAN AVE, BROOKLYN NY
Client ID: PRE CARBON

Phoenix I.D.: CC16342

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	0.149	ND	*1.00*	1.00	12/18/18	KCA	1	
Bromoform	ND	*0.097*	0.097	ND	*1.00*	1.00	12/18/18	KCA	1	
Bromomethane	ND	*0.258*	0.258	ND	*1.00*	1.00	12/18/18	KCA	1	
Carbon Disulfide	1.85	*0.321*	0.321	5.76	*1.00*	1.00	12/18/18	KCA	1	
Carbon Tetrachloride	0.089	*0.032*	0.032	0.56	*0.20*	0.20	12/18/18	KCA	1	
Chlorobenzene	ND	*0.217*	0.217	ND	*1.00*	1.00	12/18/18	KCA	1	
Chloroethane	ND	*0.379*	0.379	ND	*1.00*	1.00	12/18/18	KCA	1	
Chloroform	ND	*0.205*	0.205	ND	*1.00*	1.00	12/18/18	KCA	1	
Chloromethane	ND	*0.485*	0.485	ND	*1.00*	1.00	12/18/18	KCA	1	
Cis-1,2-Dichloroethene	ND	*0.051*	0.051	ND	*0.20*	0.20	12/18/18	KCA	1	
cis-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	12/18/18	KCA	1	
Cyclohexane	66.9	*2.91*	2.91	230	*10.0*	10.0	12/18/18	KCA	10	
Dibromochloromethane	ND	*0.118*	0.118	ND	*1.00*	1.00	12/18/18	KCA	1	
Dichlorodifluoromethane	0.883	*0.202*	0.202	4.36	*1.00*	1.00	12/18/18	KCA	1	
Ethanol	11.6	*0.531*	0.531	21.8	*1.00*	1.00	12/18/18	KCA	1	1
Ethyl acetate	ND	*0.278*	0.278	ND	*1.00*	1.00	12/18/18	KCA	1	1
Ethylbenzene	11.5	*0.230*	0.230	49.9	*1.00*	1.00	12/18/18	KCA	1	
Heptane	140	*2.44*	2.44	573	*10.0*	10.0	12/18/18	KCA	10	
Hexachlorobutadiene	ND	*0.094*	0.094	ND	*1.00*	1.00	12/18/18	KCA	1	
Hexane	60.4	*2.84*	2.84	213	*10.0*	10.0	12/18/18	KCA	10	
Isopropylalcohol	ND	*0.407*	0.407	ND	*1.00*	1.00	12/18/18	KCA	1	
Isopropylbenzene	1.98	*0.204*	0.204	9.7	*1.00*	1.00	12/18/18	KCA	1	
m,p-Xylene	73.2	*0.230*	0.230	318	*1.00*	1.00	12/18/18	KCA	1	
Methyl Ethyl Ketone	ND	*0.339*	0.339	ND	*1.00*	1.00	12/18/18	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	0.278	ND	*1.00*	1.00	12/18/18	KCA	1	
Methylene Chloride	ND	*0.864*	0.864	ND	*3.00*	3.00	12/18/18	KCA	1	
n-Butylbenzene	1.70	*0.182*	0.182	9.33	*1.00*	1.00	12/18/18	KCA	1	1
o-Xylene	21.7	*0.230*	0.230	94.2	*1.00*	1.00	12/18/18	KCA	1	
Propylene	ND	*0.581*	0.581	ND	*1.00*	1.00	12/18/18	KCA	1	1
sec-Butylbenzene	0.896	*0.182*	0.182	4.92	*1.00*	1.00	12/18/18	KCA	1	1
Styrene	0.346	*0.235*	0.235	1.47	*1.00*	1.00	12/18/18	KCA	1	
Tetrachloroethene	4.93	*0.037*	0.037	33.4	*0.25*	0.25	12/18/18	KCA	1	
Tetrahydrofuran	ND	*0.339*	0.339	ND	*1.00*	1.00	12/18/18	KCA	1	1
Toluene	3.58	*0.266*	0.266	13.5	*1.00*	1.00	12/18/18	KCA	1	
Trans-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	12/18/18	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	12/18/18	KCA	1	
Trichloroethene	0.065	*0.037*	0.037	0.35	*0.20*	0.20	12/18/18	KCA	1	
Trichlorofluoromethane	0.346	*0.178*	0.178	1.94	*1.00*	1.00	12/18/18	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	0.131	ND	*1.00*	1.00	12/18/18	KCA	1	
Vinyl Chloride	ND	*0.078*	0.078	ND	*0.20*	0.20	12/18/18	KCA	1	
QA/QC Surrogates										
% Bromofluorobenzene	*199	*%*	%	*199	*%*	%	12/18/18	KCA	1	

Ver 1

Project ID: 1815 OCEAN AVE, BROOKLYN NY
Client ID: PRE CARBON

Phoenix I.D.: CC16342

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
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:

Air Analysis:
*Surrogate criteria exceeded method criteria due to a matrix interference.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DR	12/17/18	8:34
Location Code:	EBC	Received by:	CP	12/18/18	14:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	2494				

Laboratory Data

SDG ID: GCC16342
Phoenix ID: CC16343

Project ID: 1815 OCEAN AVE, BROOKLYN NY
Client ID: POST CARBON

Parameter	ppbv Result		ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)											
1,1,1,2-Tetrachloroethane	ND		*0.146*	0.146	ND	*1.00*	1.00	12/18/18	KCA	1	1
1,1,1-Trichloroethane	ND		*0.183*	0.183	ND	*1.00*	1.00	12/18/18	KCA	1	
1,1,2,2-Tetrachloroethane	ND		*0.146*	0.146	ND	*1.00*	1.00	12/18/18	KCA	1	
1,1,2-Trichloroethane	ND		*0.183*	0.183	ND	*1.00*	1.00	12/18/18	KCA	1	
1,1-Dichloroethane	ND		*0.247*	0.247	ND	*1.00*	1.00	12/18/18	KCA	1	
1,1-Dichloroethene	ND		*0.051*	0.051	ND	*0.20*	0.20	12/18/18	KCA	1	
1,2,4-Trichlorobenzene	ND		*0.135*	0.135	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2,4-Trimethylbenzene	8.30		*0.204*	0.204	40.8	*1.00*	1.00	12/18/18	KCA	1	
1,2-Dibromoethane(EDB)	ND		*0.130*	0.130	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2-Dichlorobenzene	ND		*0.166*	0.166	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2-Dichloroethane	ND		*0.247*	0.247	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2-dichloropropane	ND		*0.217*	0.217	ND	*1.00*	1.00	12/18/18	KCA	1	
1,2-Dichlorotetrafluoroethane	ND		*0.143*	0.143	ND	*1.00*	1.00	12/18/18	KCA	1	
1,3,5-Trimethylbenzene	5.04		*0.204*	0.204	24.8	*1.00*	1.00	12/18/18	KCA	1	
1,3-Butadiene	ND		*0.452*	0.452	ND	*1.00*	1.00	12/18/18	KCA	1	
1,3-Dichlorobenzene	ND		*0.166*	0.166	ND	*1.00*	1.00	12/18/18	KCA	1	
1,4-Dichlorobenzene	0.434		*0.166*	0.166	2.61	*1.00*	1.00	12/18/18	KCA	1	
1,4-Dioxane	ND		*0.278*	0.278	ND	*1.00*	1.00	12/18/18	KCA	1	
2-Hexanone(MBK)	ND		*0.244*	0.244	ND	*1.00*	1.00	12/18/18	KCA	1	1
4-Ethyltoluene	7.11		*0.204*	0.204	34.9	*1.00*	1.00	12/18/18	KCA	1	1
4-Isopropyltoluene	0.234		*0.182*	0.182	1.28	*1.00*	1.00	12/18/18	KCA	1	1
4-Methyl-2-pentanone(MIBK)	1.86		*0.244*	0.244	7.61	*1.00*	1.00	12/18/18	KCA	1	
Acetone	3.81	S	*0.421*	0.421	9.04	*1.00*	1.00	12/18/18	KCA	1	
Acrylonitrile	ND		*0.461*	0.461	ND	*1.00*	1.00	12/18/18	KCA	1	
Benzene	0.318		*0.313*	0.313	1.02	*1.00*	1.00	12/18/18	KCA	1	
Benzyl chloride	ND		*0.193*	0.193	ND	*1.00*	1.00	12/18/18	KCA	1	

Project ID: 1815 OCEAN AVE, BROOKLYN NY
Client ID: POST CARBON

Phoenix I.D.: CC16343

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	0.149	ND	*1.00*	1.00	12/18/18	KCA	1	
Bromoform	ND	*0.097*	0.097	ND	*1.00*	1.00	12/18/18	KCA	1	
Bromomethane	ND	*0.258*	0.258	ND	*1.00*	1.00	12/18/18	KCA	1	
Carbon Disulfide	1.12	*0.321*	0.321	3.49	*1.00*	1.00	12/18/18	KCA	1	
Carbon Tetrachloride	ND	*0.032*	0.032	ND	*0.20*	0.20	12/18/18	KCA	1	
Chlorobenzene	ND	*0.217*	0.217	ND	*1.00*	1.00	12/18/18	KCA	1	
Chloroethane	ND	*0.379*	0.379	ND	*1.00*	1.00	12/18/18	KCA	1	
Chloroform	ND	*0.205*	0.205	ND	*1.00*	1.00	12/18/18	KCA	1	
Chloromethane	ND	*0.485*	0.485	ND	*1.00*	1.00	12/18/18	KCA	1	
Cis-1,2-Dichloroethene	ND	*0.051*	0.051	ND	*0.20*	0.20	12/18/18	KCA	1	
cis-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	12/18/18	KCA	1	
Cyclohexane	ND	*0.291*	0.291	ND	*1.00*	1.00	12/18/18	KCA	1	
Dibromochloromethane	ND	*0.118*	0.118	ND	*1.00*	1.00	12/18/18	KCA	1	
Dichlorodifluoromethane	0.635	*0.202*	0.202	3.14	*1.00*	1.00	12/18/18	KCA	1	
Ethanol	12.8	*0.531*	0.531	24.1	*1.00*	1.00	12/18/18	KCA	1	1
Ethyl acetate	0.433	*0.278*	0.278	1.56	*1.00*	1.00	12/18/18	KCA	1	1
Ethylbenzene	8.10	*0.230*	0.230	35.2	*1.00*	1.00	12/18/18	KCA	1	
Heptane	0.720	*0.244*	0.244	2.95	*1.00*	1.00	12/18/18	KCA	1	
Hexachlorobutadiene	ND	*0.094*	0.094	ND	*1.00*	1.00	12/18/18	KCA	1	
Hexane	ND	*0.284*	0.284	ND	*1.00*	1.00	12/18/18	KCA	1	
Isopropylalcohol	0.463	*0.407*	0.407	1.14	*1.00*	1.00	12/18/18	KCA	1	
Isopropylbenzene	0.547	*0.204*	0.204	2.69	*1.00*	1.00	12/18/18	KCA	1	
m,p-Xylene	35.2	*0.230*	0.230	153	*1.00*	1.00	12/18/18	KCA	1	
Methyl Ethyl Ketone	1.84	*0.339*	0.339	5.42	*1.00*	1.00	12/18/18	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	0.278	ND	*1.00*	1.00	12/18/18	KCA	1	
Methylene Chloride	15.4	*0.864*	0.864	53.5	*3.00*	3.00	12/18/18	KCA	1	
n-Butylbenzene	0.760	*0.182*	0.182	4.17	*1.00*	1.00	12/18/18	KCA	1	1
o-Xylene	12.2	*0.230*	0.230	52.9	*1.00*	1.00	12/18/18	KCA	1	
Propylene	ND	*0.581*	0.581	ND	*1.00*	1.00	12/18/18	KCA	1	1
sec-Butylbenzene	0.256	*0.182*	0.182	1.40	*1.00*	1.00	12/18/18	KCA	1	1
Styrene	ND	*0.235*	0.235	ND	*1.00*	1.00	12/18/18	KCA	1	
Tetrachloroethene	4.72	*0.037*	0.037	32.0	*0.25*	0.25	12/18/18	KCA	1	
Tetrahydrofuran	0.973	*0.339*	0.339	2.87	*1.00*	1.00	12/18/18	KCA	1	1
Toluene	2.50	*0.266*	0.266	9.42	*1.00*	1.00	12/18/18	KCA	1	
Trans-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	12/18/18	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	12/18/18	KCA	1	
Trichloroethene	0.101	*0.037*	0.037	0.54	*0.20*	0.20	12/18/18	KCA	1	
Trichlorofluoromethane	ND	*0.178*	0.178	ND	*1.00*	1.00	12/18/18	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	0.131	ND	*1.00*	1.00	12/18/18	KCA	1	
Vinyl Chloride	ND	*0.078*	0.078	ND	*0.20*	0.20	12/18/18	KCA	1	
QA/QC Surrogates										
% Bromofluorobenzene	109	*%*	%	109	*%*	%	12/18/18	KCA	1	

Ver 1

Project ID: 1815 OCEAN AVE, BROOKLYN NY
Client ID: POST CARBON

Phoenix I.D.: CC16343

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
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:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director

December 19, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Wednesday, December 19, 2018

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCC16342 - EBC

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.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. # | Page 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: File
☐ Phone #:

Report to: Tom Gallo	Invoice to: EBC	Project Name: 1815 Ocean Ave, Brooklyn, NY
Customer: EBC		Requested Deliverable: RCP ☐ ASP CAT B ☒
Address:		MCP ☐ NJ Deliverables ☐
	Sampled by: David Rukki	State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
	THIS SECTION FOR LAB USE ONLY												MATRIX			ANALYSES	
160342	Pre Carbon	28602	6.0	-30	-2	5388	173	8:04	8:30	12-17-18	-28	-4		X			X
	Did not use	28583	↓	↓	-3	5025	↓										
160343	Post Carbon	494	↓	↓	-4	5404	↓	8:00	8:34	12-17-18	-29	-4		X			X
	Did not use	28567	↓	↓	-3	4986	↓										

Relinquished by:	Accepted by:	Date:	Time:
David Rukki		12/18/18	10:15
	TROUVE	12/18/18	1410

Data Format:
Excel ☒ Equis ☒ Other ☒ (PDF)

Turnaround Time:
☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☒ Standard

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION: (4)(6.0)(30min)

Requested Criteria

Quote Number:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: David Rukki Date: 12-17-18

APPENDIX D

ROUTINE SYSTEM INSPECTION FORM

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

Tomat Service Station
1815-1825 Ocean Avenue, Brooklyn NY

SOIL VAPOR EXTRACTION SYSTEM INSPECTION FORM

Date: 12-18-18

Time: 8:00

Weather: 43° / Clear

Inspector: DR

Extraction Point	Vacuum (iwc)	PID Reading(ppm)
SVE-1	-24.0	0.0
SVE-2	-24.1	12.7
Blower inlet		
Carbon inlet	-18.5	
Between carbon		

Inspection:	Yes / No	Comments
Blower Operating?	Yes	
Spare Carbon Drums?	Yes	
System Integrity?	Yes/good	

Comments:

Tomat Service Station
1815-1825 Ocean Avenue, Brooklyn NY

AIR SPARGING SYSTEM INSPECTION FORM

Injection Point	Pressure
AS-1	5.4
AS-2	5.6
AS-3	5.3
AS-4	5.2
AS-5	No reading
AS-6	5.4
AS-7	No reading
AS-8	5.7

Inspection:	Yes / No	Comments
Blower Operating?	Yes	
Timer, 3-way actuated valve operating?	Yes	
System Integrity?	Yes / Good	

Comments:

Tomat Service Station
1815-1825 Ocean Avenue, Brooklyn NY

CARBON MONITORING

Carbon filter installation date:_____

Date/Time	Location	PID reading	PID units(ppm or ppb)
12-17-18 / 8:30	Pre-Carbon	31.2	PPM
12-17-18/ 8:35	Between Carbon	18.4	PPM
12-17-18/ 8:40	Post -Carbon	0.1	PPM

Comments:

Tomat Service Station
1815-1825 Ocean Avenue, Brooklyn NY

EQUIPMENT SHED

Inspection:	Yes / No	Comments
Vent Operating?	Yes	

AS Blower Lubrication and Oil Change

Location	Frequency	Comments
AS Blower Lubrication checks	Every Visit	
AS Blower Oil Change	Every 166 Days	