Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C241141

Site Name 34-11 Beach Channel Drive

Site Address: 34-11 Beach & Far Rockaway Blvd Zip Code: 11691
City/Town: Far Rockaway
County: Queens
Site Acreage: 0.835

Reporting Period: April 20, 2019 to April 20, 2020

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C241141 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
60-15950-14	Rockaway Seagirt Limited Partnership	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

* Allows use and development of property for restricted residential, commercial and industrial uses, subject to local zoning laws;
* Restricts use of groundwater as a source of potable or process water, without treatment as determined by NYSDOH or County DOH; and
* Requires compliance with the approved Site Management Plan.

60-15950-24	Rockaway Seagirt Limited Partnership	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan Soil Management Plan O&M Plan

* Must submit periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
* Allows use and development of property for restricted residential, commercial and industrial uses, subject to local zoning laws;
* Restricts use of groundwater as a source of potable or process water, without treatment as determined by NYSDOH or County DOH; and
* Requires compliance with the approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
60-15950-14	Vapor Mitigation Cover System

* A site cover is required to allow for restricted residential use of the site. The cover consists of structures such as buildings, pavement and sidewalks comprising the site development, or a soil cover in areas where the upper two feet of exposed surface soil exceeds the applicable soil cleanup objectives (SCOs). The soil cover is a minimum of two feet of soil meeting the SCOs set forth in 6 NYCRR Part 375-6.7(d) for restricted residential use. The soil cover is placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetation layer. Fill material brought to the site meets the requirements set forth in 6 NYCRR Part 375-6.7(d).
* On-site buildings constructed at site will have a sub-slab depressurization system (SSDS), or a similar engineered system, to prevent migration of vapors into the buildings.

60-15950-24	Vapor Mitigation Cover System

* A site cover is required to allow for restricted residential use of the site. The cover consists of structures such as buildings, pavement and sidewalks comprising the site development, or a soil cover in areas where the upper two feet of exposed surface soil exceeds the applicable soil cleanup objectives (SCOs). The soil cover is a minimum of two feet of soil meeting the SCOs set forth in 6 NYCRR Part 375-6.7(d) for restricted residential use. The soil cover is placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetation layer. Fill material brought to the site meets the requirements set forth in 6 NYCRR Part 375-6.7(d).
* On-site buildings constructed at site will have a sub-slab depressurization system (SSDS), or a similar engineered system, to prevent migration of vapors into the buildings.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES	NO
X	☐

2. For each Engineering Control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C241141

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I ALEX ARKER at 1044 Northern Blvd Roslyn NY 11576
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4/23/2020
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Ariel Czemerinski at AMC Engineering,
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owne
Remedial Party, Rendering Certification

7/8/2020
Date

34-11 BEACH CHANNEL DRIVE SITE

34-11 BEACH CHANNEL DRIVE, FAR ROCKAWAY, NEW YORK 11691

PERIODIC REVIEW REPORT

NYSDEC BCP Number: C241141

Submitted to:

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street
Long Island City, NY 11101-5407

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

REPORTING PERIOD:
APRIL 20, 2019 TO APRIL 20, 2020
REVISED: JULY 2020

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PERIODIC REVIEW REPORT
(April 20, 2019 to April 20, 2020)
34-11 Beach Channel Drive, Far Rockaway, New York 11691

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APPENDICES

I. EXECUTIVE SUMMARY

AMC Engineering, PLLC (AMC) has prepared the following Periodic Review Report for the time period of April 20, 2019 to April 20, 2020, for the properties located at 34-11 Beach Channel Drive in Far Rockaway, New York 11691 under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC).

Primary chemicals of concern at the site along the eastern side of the property were Chlorinated Volatile Organic Compounds and associated breakdown products in soil, groundwater and soil vapor. VOC contamination was also encountered at depths 22 to 37 ft below grade surface, and within a clayey layer. Since shallow contamination had not been found, it is assumed that TCE originated in lot 42 (east of the subject site), sank as DNAPL, and then migrated horizontally to the subject site. The Site was remediated in accordance with the Brownfield Cleanup Agreement (BCA) #C241141. Remedial Action at the Site performed under a Remedial Action Work Plan, included the excavation and disposal of soil/fill to a minimum depth of 4 feet below grade, the removal of twenty-two underground storage tanks, the injection of chemical oxidants, minor dewatering during remediation, the construction of a composite cover and installation of a sub-slab depressurization system.

An inspection was performed during the current reporting period to certify existing on-site engineering controls. The concrete slab installed above the vapor barrier was inspected for evidence of cracking. The sub-slab depressurization (SSD) system was inspected for necessary components. As of the most recent inspection dated 3/24/2020, the concrete slab is intact, and all elements for the SSD system are in place and working properly. All fans, vacuum gauges, and alarms are present and functioning.

The Site Management Plan specifies quarterly groundwater sampling from three on-Site monitoring wells (15MW1, 15MW2 and 15MW3) on a quarterly basis. Monitoring wells were sampled in September 2016, December 2016, March 2017, June 2017, September 2017, December 2017, March 2018, June 2018, September 2018 and December 2018. No groundwater sample was obtained from 15MW3 in June 2017 due to on-going building construction.

For the current reporting period, wells were sampled in June 2019 and December 2019. Sampling requirements have been switched to be biannual as approved by the DEC in November 2018 meaning that samples were not collected for the first and third quarters of 2019. Samples results for the second and fourth quarter of 2019 are reported in this Periodic Review Report.

The highest concentration of CVOCs in groundwater was noted in 15MW3 (29,075 µg/L, March 2017). The elevated CVOC concentration was primarily attributed to cis-1,2-dichloroethene (21,000 µg/L), trichloroethene (2,300 µg/L), and vinyl chloride (5,600 µg/L). The elevated CVOC concentrations returned to typical concentrations over the next six sampling events. This trend of decrease continued in the first of two samples collected in the current reporting period, followed by an increase in the second of two samples collected. The increase was attributed to cis-1,2-dichloroethene (95 µg/L) and vinyl chloride (53 µg/L). Overall, the total CVOC concentration for 15MW3 has decreased from 611 µg/L in the December 2015 sampling event to 28.04 µg/L in the March 2018 sampling event to 5.90 µg/L in the December 2018 sampling event then increased to the most recent 148.00 µg/L recorded in December 2019.

As previously reported, little or no PVOCs were detected within all three monitoring wells except for 15MW2 (42,660 µg/L, June 2017). The spike in PVOC concentration was primarily associated with ethyl benzene, isopropylbenzene, total xylenes and toluene. The PVOCs that were identified during the June 2017 sampling were not detected above laboratory reporting limits over the next six quarterly sampling events or within the most recent two sampling events that comprise the current reporting period.

Overall, the total VOCs concentration decreased from the December 2015 sampling event to the December 2019 sampling event in monitoring wells 15MW1 and 15MW2, but slightly increased in December 2019 in monitoring well 15MW3.

II. SITE OVERVIEW

A. Site Location

The Site is located in Queens, Queens County, New York and is identified as Block 15950 and Lots 1001, 1002, and 1003 (formerly Lot 14) on the New York City Tax Map (see **Figure 1** - Location Map).

The Site is 36,657 sf (0.84-acre) and is bounded by Far Rockaway Boulevard to the north and northwest, Beach Channel Drive to the northwest, Rockaway Freeway and the Manhattan Transit Authority A-Line to the south, and a vacant lot (Lot 29) to the east (**Figure 2**). The Site is now developed with a new 7-story mixed use (residential and commercial building). The building does not have a basement.

B. Site Chronology

The Remedial Action for the Site was performed in accordance with the remedy selected by the NYSDEC in the Decision Document dated June 2, 2015 and in accordance with the BCA, Index No. C231084-10-13, dated November 6, 2013. The selected remedy achieved a Track 4 Cleanup and included the following items:

- Removal of underground storage tanks (USTs) from Lot 14, and the remediation of any grossly contaminated soil and groundwater resulting from leakage of the UST, if present;
- Excavation of the upper two feet of soil/fill that exceeds the Restricted Residential Use Soil Cleanup Objectives (RRUSCO) and appropriate off-site disposal, including all grossly contaminated soil. Collection of confirmation soil samples to verify compliance with the RRUSCOs. All clean fill brought to the site will meet the requirements of 6 NYCRR Part 375-6.7(d);
- Construction of a site cover to allow for restricted residential use of the site that consists either of structures such as buildings, pavement, sidewalks or clean soil in areas where the upper two feet of exposed surface soil exceeds the applicable SCOs. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer;
- Implementation of In-Situ Chemical Oxidation (ISCO) to treat chlorinated volatile organic compounds (VOCs) in soil and groundwater along the eastern property line where chlorinated VOCs were elevated in groundwater;
- Any future buildings constructed at the site will have a sub-slab depressurization system, or similar engineered system, to prevent the migration of vapors into the buildings from soil and/or groundwater;
- Imposition of an institutional control in the form of environmental easement that requires periodic certification, allows use of property for restricted residential, restricts use of groundwater as source of potable or process water, and requires compliance with the approved Site Management Plan (SMP).

III. REMEDY PERFORMANCE, EFFECTIVENESS & PROTECTIVENESS

Remedial Action at the Site performed under a Remedial Action Work Plan, included the excavation and disposal of soil/fill to a minimum depth of 4 feet below grade, the removal of twenty-two underground storage tanks, and the injection of chemical oxidants utilizing Geoprobe drilling equipment along the eastern portion of the Site from December 2015 to July 2016. The ten injection points were performed in two designated zones (Zone 1 and Zone 2) up-gradient of the primary source areas and in the residual contamination zone (**Figure 3**).

Sodium permanganate was delivered to the site as a 40% solution in 55-gallon poly drums. Potassium permanganate cylinders (measuring 2" wide by 18" tall) were delivered to the site in boxes, in sets of 6 cylinders per box. Prior to the injections, the oxidant was diluted from a 40% solution to a 12% solution. The dilution consisted of approximately 80 gallons of oxidant, mixed with approximately 160 gallons of water. Injections in Zone 1 were started on December 18, 2015 and performed from 20 to 35 feet below grade at 5 locations, spaced 10 feet apart. Approximately 375 gallons of 12% solution was injected at each location. The permanganate cylinders were installed on days subsequent to the liquid injections. Injections in Zone 2 were started on January 2, 2016 and were performed from 20 to 35 feet below grade at 5 locations, spaced 10 feet apart. Approximately 232 gallons of 12% solution was injected at each location. The permanganate cylinders were installed on days subsequent to the liquid injections.

Injections were completed as of July 2016. No chemical oxidant injections were performed during the time period of this Periodic Review Report.

Groundwater
Groundwater monitoring to assess the effectiveness of the remedy was completed in August 2016 and has been conducted on a quarterly basis until 2019 when the Department approved changing the frequency of sampling to biannual. To assist in the evaluation of VOCs in groundwater, sum total values are provided in **Tables 1A, 1B, and 1C** for VOCs, chlorinated VOCs and petroleum VOCs for all sampled monitoring wells. The totals for petroleum VOCs include only those compounds associated with gasoline contamination. Copies of the groundwater purge logs are attached as **Appendix C**.

Monitoring wells 15MW1, 15MW2 and 15MW3 are located within the eastern portion of the site immediately down gradient of the VOCs source area and injection point areas.

As shown in **Tables 1A, 1B, and 1C,** the highest concentrations of PVOCs in groundwater were reported in 15MW2 and the highest concentrations of CVOCs in groundwater were reported in 15MW3.

Post Injection Sampling (August 2016)
All three monitoring wells exhibited elevated levels of the VOCs above the Groundwater Quality Standards (GQS): cis-1,2-Dichloroethene (300 µg/L, 25 µg/L, and 72 µg/L), trans,1,2-dichloroethene (22 µg/L, 5.5 µg/L, and 1 µg/L), and vinyl chloride (420 µg/L, 240 µg/L, and 49 µg/L), respectively for 15MW1, 15MW2, and 15MW3. Additionally, slightly elevated levels of benzene (1.1 µg/L, 1.1

µg/L, and 0.49 µg/L) were detected respectively for 15MW1, 15MW2, and 15MW3. Total VOC concentrations ranged from 122.8 µg/L (15MW3) to 747.7 µg/L (15MW1).

When compared to the pre-injection conditions, all measurable VOCs concentrations were lower during the August 2016 sampling event, in all of the monitoring wells.

Quarterly Sampling Results

15MW1

The total VOC concentration decreased from a pre-injection concentration of 11,139.20 µg/L in December 2015 to 379.66 µg/L in September 2016 to 26.87 µg/L in March 2018 to 9.13 µg/L in December 2018 to the most recent 4.75 µg/L recorded in December 2019 . Over the past two biannual sampling events only benzene, cis-1,2-dichloroethene, and vinyl chloride have been reported above GQS with only benzene appearing over the limit in the most recent sampling event.

15MW2

The total VOC concentration decreased from a pre-injection concentration of 1,998 µg/L in December 2015 to 184.11 µg/L in September 2016 to 42.67 µg/L in March 2018 to 22.66 µg/L in December 2018 to the most recent 1.58 µg/L recorded in December 2019. Over the past two biannual sampling events no VOCs have been reported above the GQS.

15MW3

The total VOC concentration decreased from a pre-injection concentration of 638.3 µg/L in December 2015 to 46.4 µg/L in September 2016 to 28.64 µg/L in March 2018 to 9.88 µg/L in December 2018 and then increased to the most recent 150.90 µg/L recorded in December 2019. Over the two biannual sampling events only benzene, cis-1,2-dichloroethene, and vinyl chloride have been reported above GQS with only cis-1,2-dichloroethene and vinyl chloride appearing over the limit in the most recent sampling event.

Protection

A 20 mil polyethylene / EVOH resin liner system (VBP 20Plus) as manufactured by Raven Industries was installed beneath the entire footprint of the building prior to pouring the concrete slab. The vapor barrier extends throughout the occupied area of each of the new buildings.

An SSD system is installed beneath the occupied portions of the building. The SSD system beneath the building consists of six separate venting zones. Each zone provides coverage of approximately 4,000 sf of slab area. The horizontal vent line is constructed of perforated 4-inch HDPE pipe. In each zone the horizontal pipe connects to a common 6-inch cast iron line that runs vertically to the roof. Virgin-mined, ¾ inch gravel was placed around the horizontal vent piping and in a 6 inch layer beneath the entire slab.

IV. IC/EC PLAN COMPLIANCE REPORT

A1. IC Requirements and Compliance

1. IC Controls

A series of Institutional Controls (ICs), required under the Site Management Plan, were placed on the property in the form of an Environmental Easement which was recorded with the NYC Department of Finance, Office of the City Register (NYSDOF-OCR). The recorded ICs are as follows:

- requires the periodic certification of ICs and ECs in accordance with Part 375-1.8(h)(3);
- allows use of property for restricted residential, commercial and industrial uses as defined by Part 375-1.8(g), subject to local zoning laws;
- restricts use of groundwater as potable or process water without necessary treatment as determined by NYSDOH or County DOH; and
- requires complaince with the NYSDEC approved Site Management Plan that includes an IC and EC Plan, an Excavation Plan, a Monitoring Plan and an Operation and Maintenance (O&M) Plan.

Adherence to these Institutional Controls on the Site (Controlled Property) is required under the Environmental Easement and will be implemented under the Site Management Plan.

2. Status of each IC

An inquiry was made with the NYCDOF-OCR to confirm that the Environmental Easement, as described above, remains in place and has not been changed, revised or modified.

3. Corrective Measures

No deficiencies in the ICs were noted for this time period, therefore no corrective measures were required.

4. IC Conclusions and Recommendations

It is recommended that the Institutional Controls remain in place.

A2. EC Requirements and Compliance

The ECs for the Site are a cover system and sub-slab depressurization system (SSDS), which are discussed below.

1. EC Controls

Composite Cover System
Exposure to remaining contamination in soil/fill at the Site is prevented by a composite cover system placed over the Site. This cover system is comprised of 6" concrete building slabs and 4" concrete driveways/parking areas throughout the Site.

Sub-Slab Depressurization System
The SSDS beneath the building consists of six separate venting zones. Each zone provides coverage of 4,000 sf of slab area. The horizontal vent line is constructed of perforated 4-inch HDPE pipe. In each zone the horizontal pipe connects to a common 6-inch cast iron line that runs vertically to the roof. Virgin-mined, ¾ inch gravel was placed around the horizontal vent piping and in a 2 inch layer beneath the entire slab.

2. Status of each EC

An inspection was performed for the current reporting period on March 24, 2020 . No deficiencies in the engineering controls were identified during the inspection. Deficiencies noted in the May and June 2019 inspections were corrected and addressed in the April 20, 2018 to April 20, 2019 Periodic Review Report submitted to the Department. Copies of the Annual Checklists are attached as **Appendix A**.

Composite Cover System
No cracks or perforations were noted in the concrete cap during the reporting period

Sub-Slab Depressurization System
All venting zones were inspected. Each zone had a riser free from leaks, a functioning RadonAway RP265c fan, and an alarm. All alarms were functioning properly.

3. Corrective Measures

No corrective measures were implemented since the submittal of the April 20, 2018 to April 20, 2019 Periodic Review Report

4. EC Conclusions and Recommendations

All controls are currently in place, functioning, and in compliance with the Site Management Plan.

It is recommended that the ECs remain in place, unless otherwise specified by the NYSDEC.

B. IC/EC Certification

I, Ariel Czemerinski, am currently a registered professional engineer licensed by the State of New York. I have inspected the Engineering Controls for the 34-11 Beach Channel Drive Site (NYSDEC Site No. C241141).

I certify that the Engineering Controls, consisting of a sub-slab depressurization system and a vapor barrier remain in-place and the systems are performing as designed and nothing has occurred which would impair the ability of the controls to protect the public health and the environment, or that would constitute a violation or failure to comply with any operation and maintenance of such controls.

I certify that access is available to the NYSDEC and the NYSDOH to evaluate continued maintenance of the Engineering Controls.

I certify that the Institutional Controls in the form of an environmental easement recorded with the NYC Department of Finance, Office of the City Register, remains in place, is unchanged from the previous certification and that the current site usage is in compliance with the environmental easement.

Ariel Czemerinski_____ 4/23/2020 _____

NYS Professional Engineer # Date Signature

V. MONITORING PLAN COMPLIANCE REPORT

A. Components of the Monitoring Plan

The Monitoring Plan within the Site Management Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the site, the soil cover system, and all affected site media identified below. Monitoring of other Engineering Controls is described in Chapter 4, Operation, Monitoring and Maintenance Plan.

Groundwater samples are to be collected from the on-Site monitoring well network on a quarterly basis. Sampling is to be conducted in accordance with the previously approved Site Management Plan, and groundwater samples are to be analyzed for volatile organic compounds via EPA Method 8260.

B. Summary of Monitoring Completed During Reporting Period

As per the Departments approval on November 1, 2018, the frequency of sampling was reduced to biannual for monitoring wells 15MW1 to 15MW3. Groundwater quality was monitored during this time period by sampling the on-Site monitoring wells in June 2019 and December 2019.

Copies of the groundwater purge logs are attached as **Appendix C**.

Prior to sampling each monitoring well, depth to bottom and depth to water measurements were collected utilizing a decontaminated electronic water level probe. This data was then used to calculate the volume of water to be removed from each monitoring well prior to sampling. A total of approximately 3-5 well casing volumes were removed from each monitoring well utilizing a peristaltic pump equipped with disposable polyethylene tubing. Groundwater samples were then collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis 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) for laboratory analysis of volatile organic compounds (VOCs) via EPA method 8260.

Groundwater sample results were compared to the water quality standards specified in New York State 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). Analytical data for the groundwater samples for this time period and comparisons to previous data are summarized in **Tables 1A, 1B and 1C**. Copies of the laboratory analytical reports are included in **Appendix B.** The total PVOCs, total CVOCs and total VOC concentrations are shown in **Graphs 1-3** for visual comparison.

C. Comparisons with Remedial Objectives

As shown in **Tables 1A, 1B** and **1C,** the highest concentration of CVOCs in groundwater were reported in 15MW3 (29,075 µg/L, March 2017), and they show bulk asymptotic reduction when compared to the December 2019 tests. The initial CVOC compounds detected were primarily cis-1,2-dichloroethene (21,000 µg/L), trichloroethene (2,300 µg/L) and vinyl chloride (5,600 µg/L). The Dec 2019 sampling event reports only CVOC exceedance in 15MW3 for cis-1,2-Dichloroethene (95 µg/L), and Vinyl Chloride (53 µg/L).

Little to no PVOCs were detected within all three monitoring wells except for 15MW2 (42,660 µg/L, June 2017). The spike in PVOC concentration was primarily associated with ethyl benzene, isopropylbenzene, total xylenes and toluene. The Dec 2019 sampling event reveals only Benzene in exceedance to GWQS at 1.4 µg/L.

D. Monitoring Deficiencies

No monitoring deficiencies were noted during this reporting period.

E. Conclusions and Recommendations

Total VOC concentrations remained low for the reporting period as they had during the latter months of the previous reporting period. Although there was a spike in CVOC concentrations during the March 2017 sampling event and in PVOC concentrations during the June 2017 sampling event the following sampling events returned to typical VOC concentrations. Overall, the total VOCs concentration decreased from the December 2015 sampling event to the December 2019 sampling event in monitoring wells 15MW1 and 15MW2, but slightly increased in December 2019 in monitoring well 15MW3.

As can be seen in the sampling events results, asymptotic reduction of concentration of both chlorinated and petroleum hydrocarbons has been achieved when looked at the 2015-2019 period. Only Benzene (1.4 µg/L) in 15MW1, and cis-1,20Dichloroethene (95 µg/L) and Vinyl Chloride (95 µg/L) in 15 MW3 are present in exceedance of the bw quality standards. Monitoring well 15MW2 achieved full reduction and no VOC compound is above GWQS.

VI. OPERATIONS & MAINTENANCE PLAN COMPLIANCE REPORT

A. Components of the O&M Plan

The Operation and Maintenance Plan describes the measures necessary to operate and maintain the sub-slab vapor depressurization system, concrete slab, and vapor barrier for the Site.

1. Sub-Slab Vapor Barrier

The sub-slab vapor barrier is not part of the approved remedy (i.e. an engineering control), but rather a component of standard building construction. The sub-slab vapor barrier is to be maintained and patched as needed should any penetrations occur. If any significant penetrations through the slab are needed for future construction, care will be taken to minimize damage to the vapor barrier so that an adequate patch can be installed following completion of construction activities. Repairs of the vapor barrier will be observed and documented by a licensed professional engineer or a field inspector under the direct supervision of a licensed professional engineer. The concrete pad should be maintained to prevent cracks and other integrity damages. The pad is to be inspected semi-annually. In the event there is damage or construction on or near the pad, the owner and/or owner's representative and AMC will be notified to properly evaluate and repair if required.

2. Sub-Slab Depressurization System

The sub-slab vapor depressurization system is currently in place. The SSD system beneath the building consists of six separate venting zones. Each zone contains a riser, operational fan, and operational alarm. Damage to SSD elements is to be noted during inspections, with the owner and/or owner's representative and AMC being notified to properly evaluate and repair if required.

3. Monitoring Well Maintenance

If biofouling or silt accumulation has occurred in the on-Site and/or off-Site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced (as per the Monitoring Plan), if an event renders the wells unusable. In addition, monitoring well caps and cover will be replaced and repaired.

4. Reporting

A checklist is to be completed during each routine maintenance event which is scheduled to be on a semi-annual basis. Checklists/forms will include, but not be limited to the following information:

- Date;
- Name, company, and position of person(s) conducting maintenance;
- Activities;
- Maintenance activities conducted;

- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and
- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

During each non-routine maintenance event, a form is to be completed that includes, but is not limited to, the following information:

- Date;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;
- Presence of leaks;
- Date of leak repair;
- Other repairs or adjustments made to the system;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and,
- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

5. Contingency Plan

Emergencies may include fire or explosion, environmental release, or serious weather conditions. There is one alarm on the sub-slab depressurization system to visually and audibly alert that the fan has stopped. The fans should only cease should there be a power outage or blockage. In the event the system failure alarm goes off, the owner or owner's representative and AMC will be contacted for repairs.

B. Summary of O&M Completed During Reporting Period

1. Vapor Barrier

The concrete pad installed above the vapor barrier was inspected for evidence of new penetrations on March 24, 2020. No cracks or perforations were noted in the concrete cap during the reporting period

2. Sub-Slab Depressurization System

All venting zones were inspected. Each zone had a riser free from leaks, a functioning RadonAway RP265c fan, and an alarm. All alarms were functioning properly.

C. Evaluation of Remedial Systems

1. Vapor Barrier

As of the time of this submission, the vapor barrier is in place and functioning as intended.

2. Sub-Slab Depressurization System

As of the time of this submission, the SSD system is in place and functioning as intended.

D. O&M Deficiencies

As of the time of this submission, no deficiencies exist at this Site.

E. Conclusions and Recommendations for Improvements

Continue to monitor the sub-slab vapor depressurization system, concrete slab, and vapor barrier during routine inspections of the Site.

VII. OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

A. Compliance with SMP

All requirements of the SMP were implemented during this PRR reporting period. In order to implement all of the SMP requirements, the following items were completed:

- Groundwater samples were collected from the on-Site monitoring wells in June 2019 and December 2019.
- The concrete slab was inspected and the inspection checklist was completed.
- The sub-slab depressurization system was inspected to ensure proper operation and the inspection checklist was completed.
- The ICs/ECs were inspected and the ICs were certified by the remedial engineer.

B. Performance and Effectiveness of Remedy

The institutional and engineering controls, the monitoring plan and the OM&M plan for the site are performing effectively in addressing the remedial objectives for the site. Overall, concentration of total VOCs in on-Site groundwater from December 2015 to December 2019 appear to be decreasing.

C. Future PRR Submittals

The next PRR submittal will reflect the PRR reporting period of April 20, 2020 to April 20, 2021. No changes are proposed to the frequency of PRR submittals.

TABLES / GRAPHS

TABLE 1A
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW1

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW1																									
		12/18/2015		8/5/2016		9/20/2016		12/20/2016		3/27/2017		6/8/2017		9/18/2017		12/13/2017		3/23/2018		6/15/2018		9/19/2018		12/10/2018		6/28/2019		12/12/2019	
		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		Result	RL	Result	RL	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-Tetrachlorothane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	**8.2**	5.0	**1.1**	1.0	**0.78**	1.0	< 1.0	1.0	**1.4**	5.0	**0.58**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**0.28**	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	0.29	1.0	0.29	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 4.7	4.7	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 2.5	2.5	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4**	1.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	**0.35**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100	< 100	100	< 100	100	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5	< 1.0	1.0	< 1.0	1.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		< 50	50	**3.5**	5.0	**4.3**	5.0	< 5.0	5.0	< 25	25	**5.7**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	**3.2**	5.0	< 10	10	**4.6**	5.0	**3.2**	5.0	< 5.0	5.0
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.1	0.70	**0.84**	0.70	**0.25**	0.70	< 1.3	1.3	**0.56**	0.70	**1.1**	0.70	**1.8**	0.70	**1.70**	0.70	**1.5**	0.70	**0.84**	0.70	**1.4**	0.70	**1.6**	0.70	**1.4**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Bromomethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Chlorobenzene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	**0.29**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 7.0	7.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloromethane	60	< 5.0	5.0	< 5.0	5.0	**0.74**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**6,000**	400	**300**	20	**230**	10	**51**	5.0	**690**	13	**300**	20	**76**	10	**17**	1.0	**5.40**	1.0	**1.8**	1.0	**13**	1.0	**1.1**	1.0	**130**	10	**1.1**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methyl Ethyl Ketone (2-Butanone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.38**	1.0	**0.5**	1.0	**0.38**	1.0	**0.4**	1.0	< 1.0	1.0	**0.43**	1.0	**0.45**	1.0	**0.49**	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 50	50	< 50	50	< 50	50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.32**	1.0	**0.43**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**220**	100	**22**	5.0	**9.7**	5.0	**4.7**	5.0	**11**	5.0	**6.7**	5.0	**3.3**	5.0	**4.3**	5.0	**2.10**	5.0	**2.4**	5.0	**0.84**	5.0	**1.6**	5.0	**3.4**	5.0	**1.5**	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**11**	5.0	< 1.0	1.0	**0.3**	1.0	**0.37**	1.0	< 5.0	5.0	**0.26**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**4,900**	400	**420**	20	**130**	10	**80**	2.5	**320**	13	**160**	20	**100**	10	**27**	1.0	**17**	1.0	**7.9**	1.0	< 1.0	1.0	**0.66**	1.0	**200**	10	**0.26**	1.0
CVOCs		**11,139.20**		**743.10**		**371.52**		**140.07**		**1,022.40**		**467.83**		**179.30**		**48.65**		**24.79**		**5.15**		**21.74**		**2.70**		**333.68**		**2.86**	
PVOCs		**0.0**		**4.6**		**5.1**		**0.3**		**0.0**		**6.3**		**1.8**		**1.8**		**2.1**		**5.1**		**0.84**		**6.43**		**5.25**		**1.89**	
Total VOCs		**11,139.20**		**747.70**		**376.66**		**140.32**		**1,022.40**		**474.09**		**181.10**		**50.45**		**26.87**		**10.25**		**22.58**		**9.13**		**338.93**		**4.75**	

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

TABLE 1B
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW2

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW2																											
		12/18/2015		8/5/2016		9/20/2016		12/20/2016		3/27/2017		6/8/2017		9/18/2017		12/13/2017		3/23/2018		6/15/2018		9/19/2018		12/10/2018		6/28/2019		12/12/2019	
		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		Result	RL	Result	RL	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-Tetrachlorothane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 10	10	< 2.5	2.5	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 4.7	4.7	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 10	10	< 2.5	2.5	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4.40**	1.0	< 1.0	1.0	< 5.0	5.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100	< 100	100	< 100	100	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5	< 1.0	1.0	< 1.0	1.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	**17.00**	25	**16**	5.0	< 5.0	5.0	**15**	5.0	< 10	10	**8.9**	5.0	**3.9**	5.0	< 5.0	5.0
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.10	0.70	**0.80**	0.70	**0.77**	7.0	**0.74**	0.70	< 5.1	5.0	< 1.3	1.3	**0.38**	0.70	< 0.70	0.70	< 0.70	0.70	< 0.70	0.70	**0.35**	0.70	**0.65**	0.70	**0.58**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 25	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Bromomethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Chlorobenzene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 7.0	7.0	< 7.0	7.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloromethane	60	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**1400**	5.0	**25**	1.0	**18**	1.0	**10**	5.0	**5.50**	1.0	**12**	20	**440**	20	**25**	1.0	**5.9**	1.0	**3.7**	1.0	**0.87**	1.0	**2.5**	1.0	**0.77**	1.0	**0.64**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**4600**	400	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**0.35**	1.0	**0.67**	1.0	**0.36**	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**28**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	0.26	1.0	< 1.0	1.0	**28,000**	######	< 5.0	5.0	**0.39**	1.0	**0.54**	1.0	**1.1**	1.0	**2.7**	1.0	**1.4**	1.0	< 1.0	1.0	< 1.0	1.0
Methyl Ethyl Ketone (2-Butanone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	**3**	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	**1.5**	1.0	**1.7**	1.0	**1.2**	1.0	**1.9**	1.0	< 1.0	1.0	< 1.0	1.0
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 50	50	< 50	50	< 50	50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**1.7**	1.0	**0.94**	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	**0.86**	1.0	**0.71**	1.0	**0.95**	1.0	< 1.0	1.0	**10,000**	400	< 5.0	5.0	**0.34**	1.0	**0.36**	1.0	**0.79**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 50	50	< 50	50	< 50	50	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 25	25	< 5.0	5.0	**7**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**32**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**14**	5.0	**5.50**	5.0	**4.60**	5.0	**5.10**	5.0	**5.10**	5.0	< 5.0	5.0	**6.40**	25	**1.9**	5.0	**0.37**	5.0	**0.26**	5.0	< 5.0	5.0	**0.31**	5.0	**0.42**	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**14**	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**570**	5.0	**240**	20	**160**	10	**43**	2.0	**1.10**	1.0	< 5.0	5.0	**480**	20	**39**	20	**27**	1.0	**14**	1.0	**1.6**	1.0	**6**	1.0	**0.91**	1.0	**0.36**	1.0
CVOCs		**1,998.00**		**270.50**		**182.60**		**62.50**		**11.70**		**12.00**		**926.40**		**65.90**		**33.27**		**17.96**		**2.47**		**8.81**		**2.10**		**1.00**	
PVOCs		**0.0**		**2.0**		**1.5**		**2.0**		**0.7**		**42,660.0**		**17.0**		**0.7**		**9.4**		**18.9**		**6.3**		**13.9**		**4.55**		**0.58**	
Total VOCs		**1,998.00**		**272.46**		**184.11**		**64.48**		**12.44**		**42,672.00**		**943.40**		**66.63**		**42.67**		**36.90**		**8.74**		**22.66**		**6.65**		**1.58**	

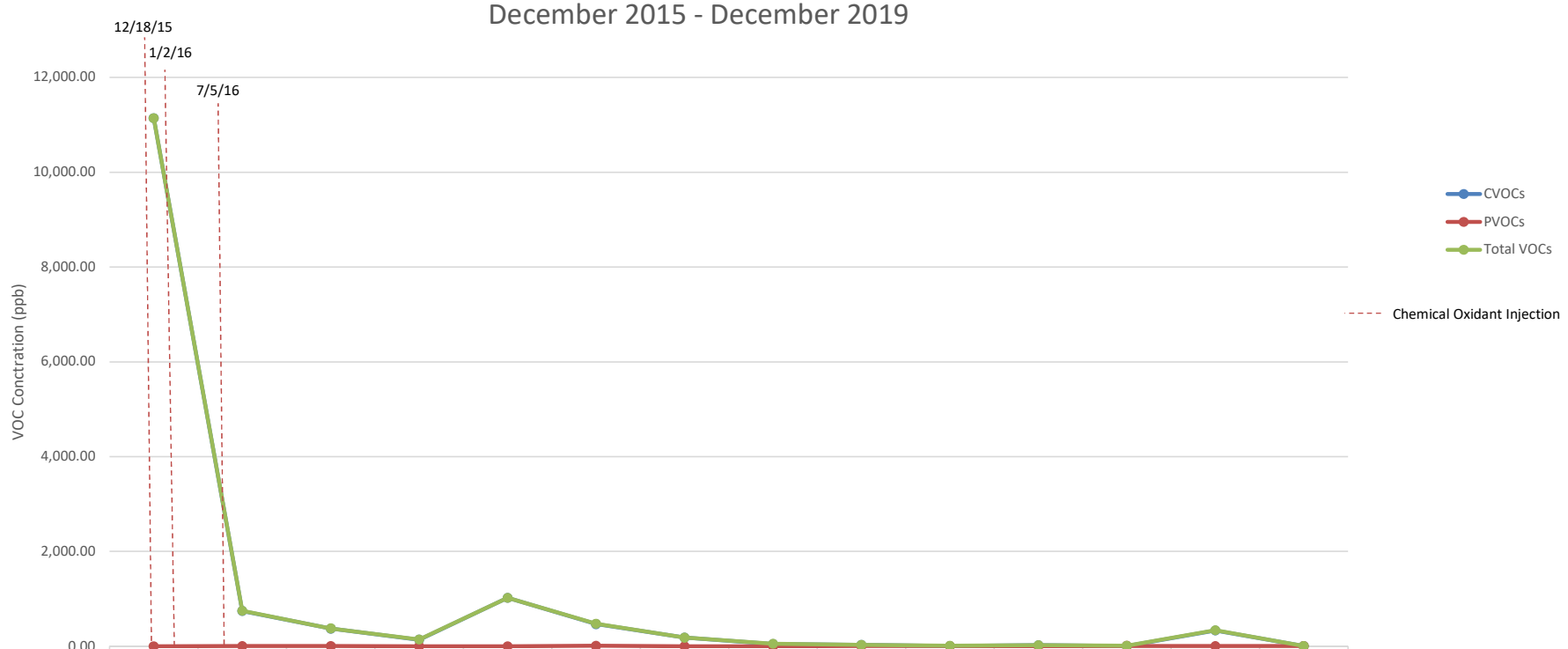
Notes:
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 1C
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW3

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW3																											
		12/18/2015		8/5/2016		9/20/2016		12/20/2016		3/27/2017		6/8/2017		9/18/2017		12/13/2017		3/23/2018		6/15/2018		9/19/2018		12/10/2018		6/28/2019		12/12/2019	
		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		Result	RL	Result	RL	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-Tetrachlorothane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1,1-Trichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**51**	5.0	**110**	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,2,3-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 10	10
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 2.5	2.5
1,2,4-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 10	10
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.32**	1.0	< 1.0	1.0	<0.5	0.50	<0.5	0.50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,2-Dibromo-3-chloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 10	10	< 10	10	-	-	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 5.0	5.0
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 2.5	2.5
1,2-Dichlorobenzene	5	< 4.0	4.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 4.7	4.7
1,2-Dichloroethane	0.6	< 3.0	3.0	< 0.60	0.60	< 0.60	0.60	< 10	10	< 10	10	-	-	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 5.0	5.0
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5
1,3,5-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,3-Dichlorobenzene	5	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 3.0	3.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100	< 100	100	< 100	100	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 1.0	1.0	< 2.5	2.5	< 25	25
2-Hexanone (Methyl Butyl Ketone)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5	< 1.0	1.0	< 5.0	5.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
4-Methyl-2-Pentanone		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 25	25
Acetone		**15**	25	< 5.0	5.0	**2.7**	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	**2.8**	5.0	< 10	10	**3.4**	5.0	**9.2**	5.0	< 50	50
Acrolein		< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25
Acrylonitrile	5	< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	**7.5**	3.5	0.49	0.70	**0.75**	0.70	< 5.0	5.0	< 5.0	5.0	-	-	**2.2**	0.70	**1.1**	0.70	**0.6**	0.70	**0.73**	0.70	**1.4**	0.70	**0.58**	0.70	**1.3**	0.70	< 2.5	2.5
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Bromodichloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 10	10
Bromoform		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50
Bromomethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	**2.3**	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.29**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**2.9**	10
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Chlorobenzene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	**20**	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 7.0	7.0	< 7.0	7.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 7.0	7.0
Chloromethane	60	< 5.0	5.0	0.3	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.41**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**430**	20	**72**	10	**24**	1.0	**11,000**	100	**21,000**	250	-	-	**29**	20	**26**	1.0	**9**	1.0	**6**	1.0	**1.4**	1.0	**3.3**	1.0	**6.3**	1.0	**95**	10
cis-1,3-Dichloropropene		< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 2.5	2.5
Dibromochloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 10	10
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.3**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Hexachlorobutadiene	0.5	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 4.0	4.0	-	-	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 2.0	2.0
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.27**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
m&p-Xylenes	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.33**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 10	10
Methyl Ethyl Ketone (2-Butanone)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 25	25
Methyl t-butyl ether (MTBE)	10	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**0.43**	1.0	< 1.0	1.0	< 1.0	1.0	< 10	10
Methylene chloride	5	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 20	20	-	-	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 5.0	5.0
Naphthalene	10	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**1.7**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**1.1**	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.34**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Tetrahydrofuran (THF)		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50
Toluene	5	**2.5**	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
trans-1,2-Dichloroethene	5	**11**	25	**1**	5.0	**0.96**	5.0	**26**	5.0	**65**	5.0	-	-	**0.89**	5.0	**1**	5.0	**0.64**	5.0	**0.54**	5.0	**2.1**	5.0	**0.6**	5.0	**0.42**	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 2.5	2.5
trans-1,4-dichloro-2-butene	5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 25	25
Trichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**1,200**	100	**2,300**	50	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
Vinyl Chloride	2	**150**	20	**49**	10	**18**	1.0	**3,900**	100	**5,600**	50	-	-	**24**	20	**43**	20	**18**	1.0	**5**	1.0	**0.34**	1.0	**2**	1.0	**2.8**	1.0	**53**	10
CVOCs		**611.0**		**122.3**		**43.0**		**16,177.0**		**29,075.0**		**-**		**54.30**		**70.0**		**28.04**		**11.24**		**3.84**		**5.90**		**9.52**		**148.00**	
PVOCs		**27.3**		**0.5**		**3.5**		**0.0**		**0.0**		**-**		**5.75**		**0.0**		**0.60**		**3.53**		**2.93**		**3.98**		**10.50**		**2.90**	
Total VOCs		**638.3**		**122.8**		**46.4**		**16,177.0**		**29,075.0**		**-**		**60.05**		**70.0**		**28.64**		**14.77**		**6.77**		**9.88**		**20.02**		**150.90**	

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

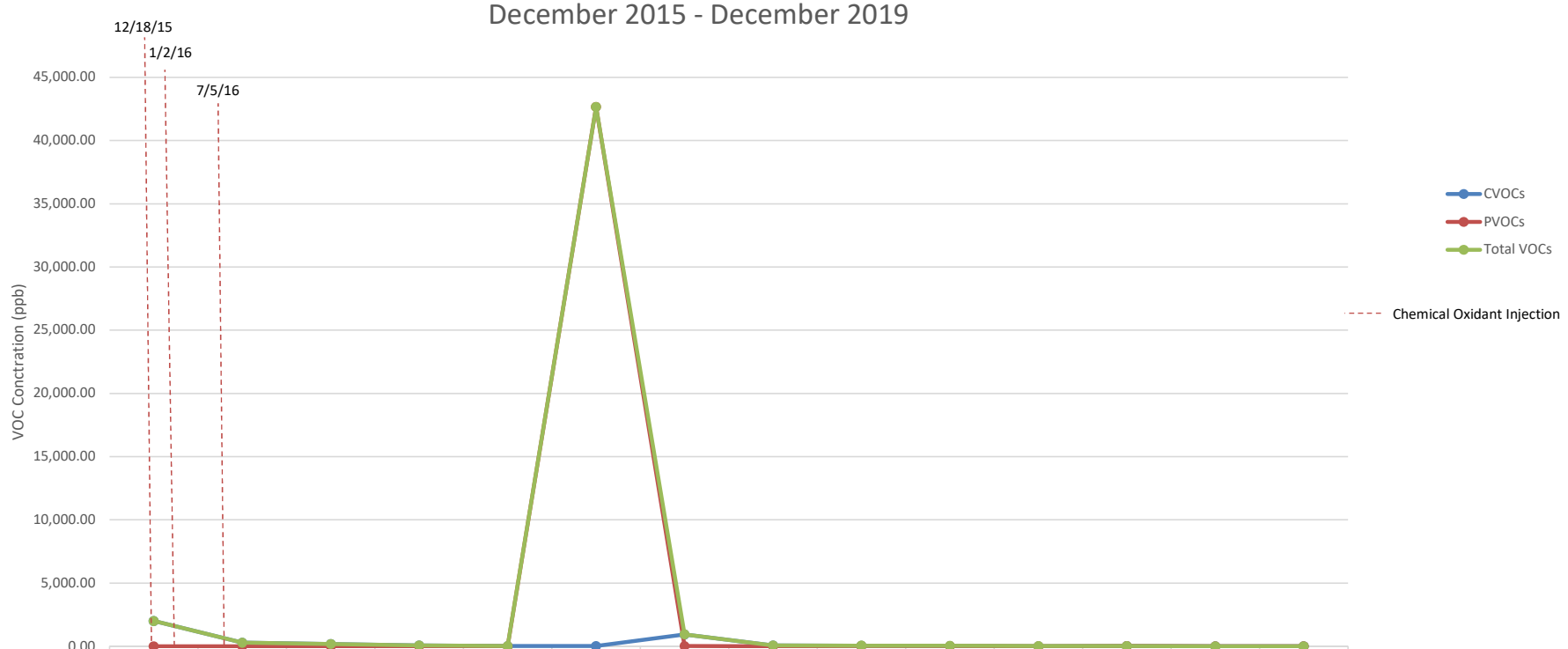
Graph 1
15MW1 VOCs
34-11 Beach Channel Drive, Queens NY
December 2015 - December 2019



	12/18/2015	8/5/2016	9/20/2016	12/20/2016	3/27/2017	6/8/2017	9/18/2017	12/13/2017	3/23/2018	6/15/2018	9/19/2018	12/10/2018	6/28/2019	12/12/2019
CVOCs	11,139.20	743.10	371.52	140.07	1,022.40	467.83	179.30	48.65	24.79	5.15	21.74	2.70	333.68	2.86
PVOCs	0.0	4.6	5.1	0.3	0.0	6.3	1.8	1.8	2.1	5.1	0.84	6.43	5.25	1.89
Total VOCs	11,139.20	747.70	376.66	140.32	1,022.40	474.09	181.10	50.45	26.87	10.25	22.58	9.13	338.93	4.75

Date

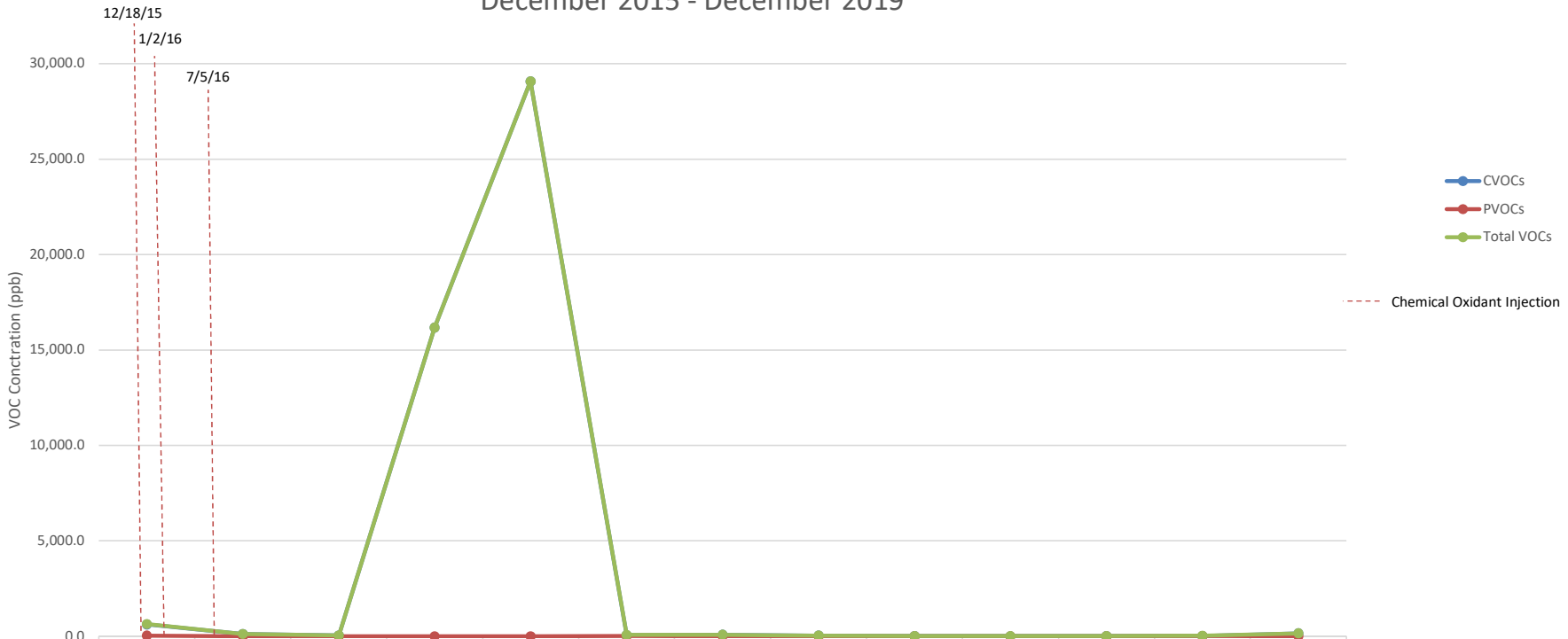
Graph 2
15MW2 VOCs
34-11 Beach Channel Drive, Queens NY
December 2015 - December 2019



	12/18/2015	8/5/2016	9/20/2016	12/20/2016	3/27/2017	6/8/2017	9/18/2017	12/13/2017	3/23/2018	6/15/2018	9/19/2018	12/10/2018	6/28/2019	12/12/2019
CVOCs	1,998.00	270.50	182.60	62.50	11.70	12.00	926.40	65.90	33.27	17.96	2.47	8.81	2.10	1.00
PVOCs	0.0	2.0	1.5	2.0	0.7	42,660.0	17.0	0.7	9.4	18.9	6.3	13.9	4.55	0.58
Total VOCs	1,998.00	272.46	184.11	64.48	12.44	42,672.00	943.40	66.63	42.67	36.90	8.74	22.66	6.65	1.58

Date

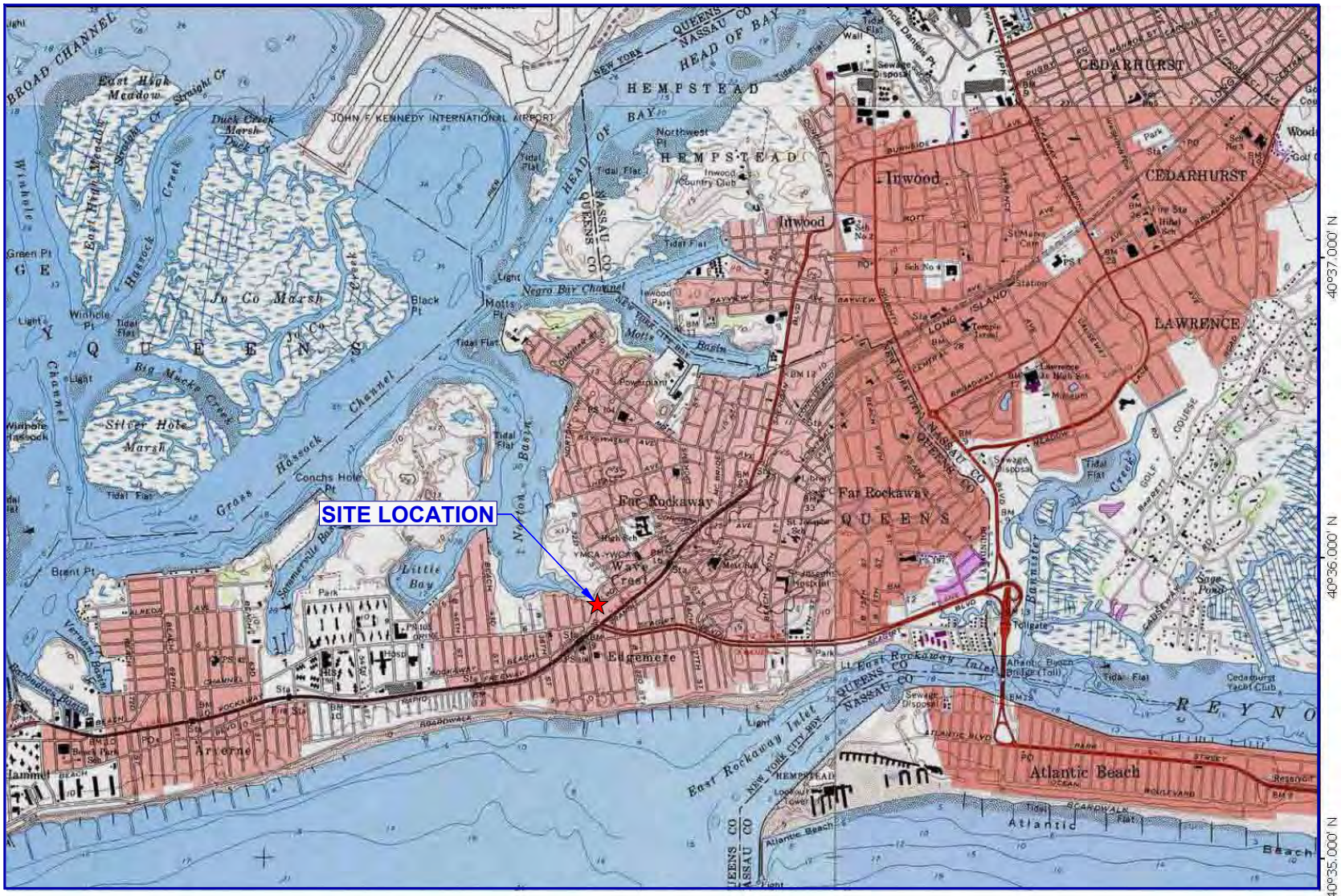
Graph 3
15MW3 VOCs
34-11 Beach Channel Drive, Queens NY
December 2015 - December 2019



	12/18/2015	8/5/2016	9/20/2016	12/20/2016	3/27/2017	9/18/2017	12/13/2017	3/23/2018	6/15/2018	9/19/2018	12/10/2018	6/28/2019	12/12/2019
CVOCs	611.0	122.3	43.0	16,177.0	29,075.0	54.30	70.0	28.04	11.24	3.84	5.90	9.52	148.00
PVOCs	27.3	0.5	3.5	0.0	0.0	5.75	0.0	0.60	3.53	2.93	3.98	10.50	2.90
Total VOCs	638.3	122.8	46.4	16,177.0	29,075.0	60.05	70.0	28.64	14.77	6.77	9.88	20.02	150.90

Date

FIGURES



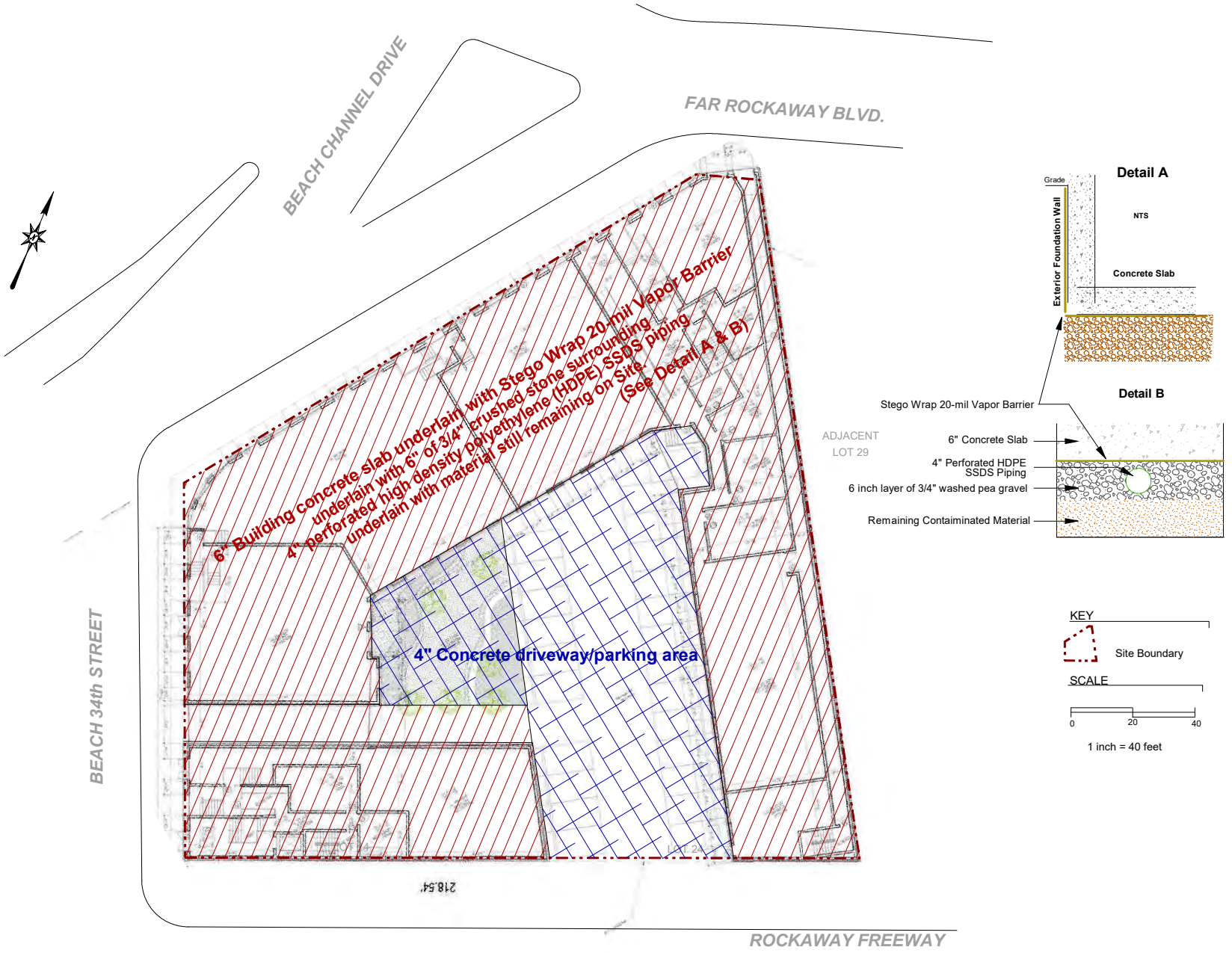
EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 1

Site Name: 34-11 BEACH CHANNEL DRIVE

Site Address: 34-11 BEACH CHANNEL DRIVE, FAR ROCKAWAY, NY

Drawing Title: SITE LOCATION MAP



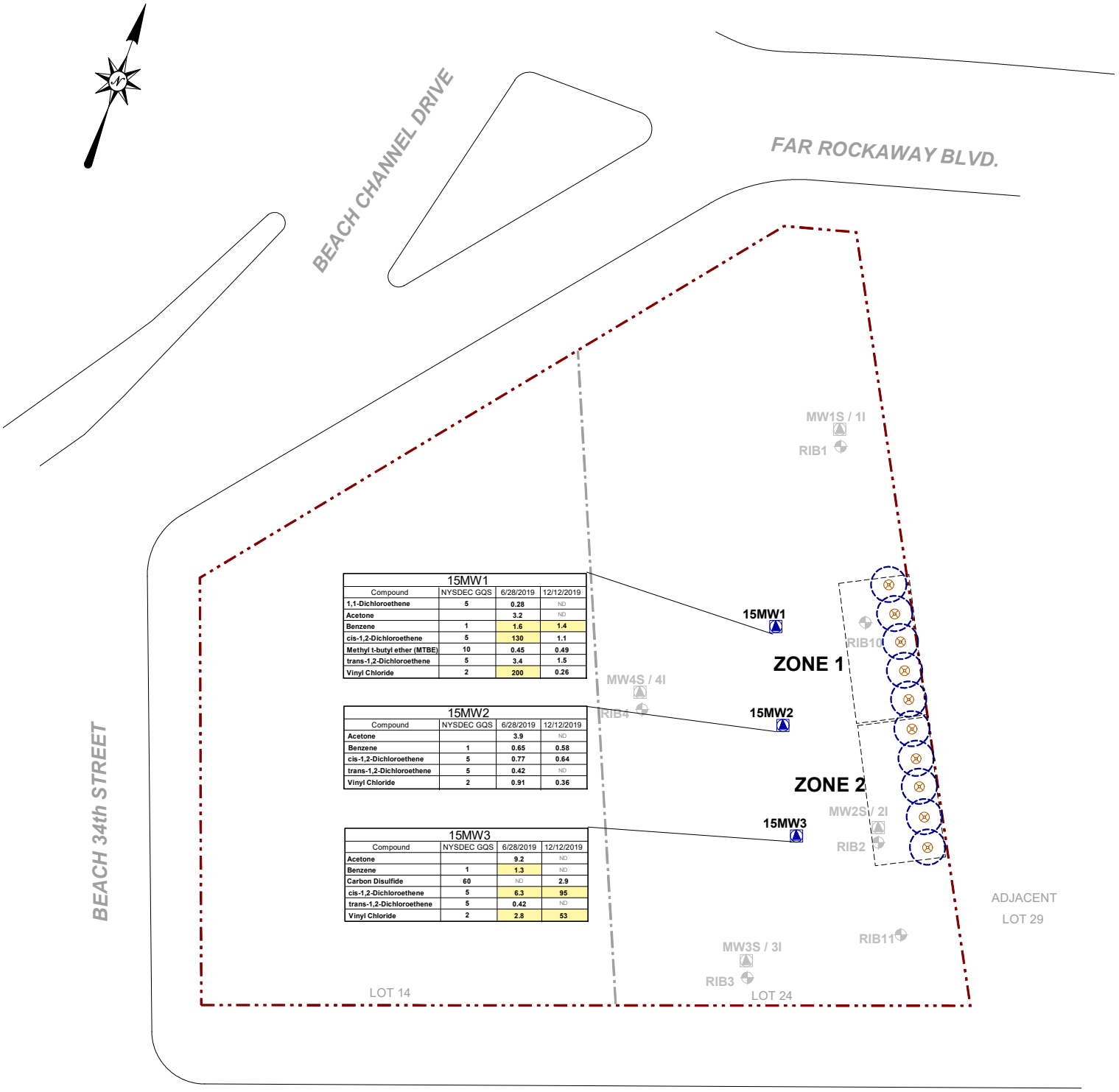
EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 2

Site Name: 34-11 Beach Channel Drive

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: Site Plan



15MW1			
Compound	NYSDEC GQS	6/28/2019	12/12/2019
1,1-Dichloroethene	5	0.28	ND
Acetone		3.2	ND
Benzene	1	1.6	1.4
cis-1,2-Dichloroethene	5	130	1.1
Methyl t-butyl ether (MTBE)	10	0.45	0.49
trans-1,2-Dichloroethene	5	3.4	1.5
Vinyl Chloride	2	200	0.26

15MW2			
Compound	NYSDEC GQS	6/28/2019	12/12/2019
Acetone		3.9	ND
Benzene	1	0.65	0.58
cis-1,2-Dichloroethene	5	0.77	0.64
trans-1,2-Dichloroethene	5	0.42	ND
Vinyl Chloride	2	0.91	0.36

15MW3			
Compound	NYSDEC GQS	6/28/2019	12/12/2019
Acetone		9.2	ND
Benzene	1	1.3	ND
Carbon Disulfide	60	ND	2.9
cis-1,2-Dichloroethene	5	6.3	95
trans-1,2-Dichloroethene	5	0.42	ND
Vinyl Chloride	2	2.8	53

SCALE

0 20 40

1 inch = 40 feet

KEY

Site Boundary

MWx RI Monitoring Well

RIBx RI Soil Boring

15MWx ISCO Performance Monitoring Well

ROI (5 ft) Oxidant Injection Location

Exceedance of NYSDEC Groundwater Standard

EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 3

Site Name: 34-11 Beach Channel Drive Site

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: 2019 Groundwater Sampling Detections

APPENDIX A
ANNUAL CHECKLISTS

SITE INSPECTION CHECKLIST

SSDS - System Inspection Checklist (Zones 1 & 2)
34-11 Beach Channel Drive
Far Rockaway (Queens), NY

Date: 3/24/2020 Time: 13:00

Inspector Name/Organization: Thomas Gallo / EBC

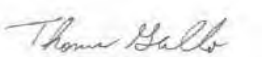
Physical Inspection of Fan- Check seal w/vent line, unusual noises and general condition of unit.

Zone 1 :	**yes**	**no**	Fan Model No. Manufacturer:
Operational?	X		RadonAway RP265
Observed Leaks at Seals?		X	
Air Flow at Exhaust Stack?	X		Other Comments / Observations
Vacuum Reading:	-1.0 "H2O		
Alarm Test:			
Alarm sound when fan off?	X		
Indicator lights when fan off?	X		

Zone 2 :	**yes**	**no**	Fan Model No. Manufacturer:
Operational?	X		RadonAway RP265
Observed Leaks at Seals?		X	
Air Flow at Exhaust Stack?	X		Other Comments / Observations
Vacuum Reading:	-2.0 "H2O		
Alarm Test:			
Alarm sound when fan off?	X		
Indicator lights when fan off?	X		

Repairs Needed and / or Maintenance at this time?

None

Signature:  Date: 3/24/2020

SITE INSPECTION CHECKLIST

SSDS - System Inspection Checklist (Zones 3 & 4)
34-11 Beach Channel Drive
Far Rockaway (Queens), NY

Date: 3/24/2020 Time: 13:45 PM

Inspector Name/Organization: Thomas Gallo / EBC

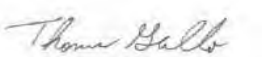
Physical Inspection of Fan- Check seal w/vent line, unusual noises and general condition of unit.

Zone 3 :	**yes**	**no**	Fan Model No. Manufacturer:
Operational?	X		RadonAway RP265
Observed Leaks at Seals?		X	
Air Flow at Exhaust Stack?	X		Other Comments / Observations
Vacuum Reading:	-1.7 "H2O		
Alarm Test:			
Alarm sound when fan off?	X		
Indicator lights when fan off?	X		

Zone 4 :	**yes**	**no**	Fan Model No. Manufacturer:
Operational?	X		RadonAway RP265
Observed Leaks at Seals?		X	
Air Flow at Exhaust Stack?	X		Other Comments / Observations
Vacuum Reading:	-2.0 "H2O		
Alarm Test:			
Alarm sound when fan off?	X		
Indicator lights when fan off?	X		

Repairs Needed and / or Maintenance at this time?

None

Signature:  Date: 3/24/2020

SITE INSPECTION CHECKLIST

SSDS - System Inspection Checklist (Zones 5 & 6)
34-11 Beach Channel Drive
Far Rockaway (Queens), NY

Date: 3/24/2020 Time: 14:30 PM

Inspector Name/Organization: Thomas Gallo / EBC

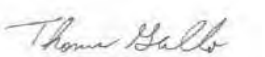
Physical Inspection of Fan- Check seal w/vent line, unusual noises and general condition of unit.

Zone 5 :	**yes**	**no**	Fan Model No. Manufacturer:
Operational?	X		RadonAway RP265
Observed Leaks at Seals?		X	
Air Flow at Exhaust Stack?	X		Other Comments / Observations
Vacuum Reading:	-2.0 "H2O		
Alarm Test:			
Alarm sound when fan off?	X		
Indicator lights when fan off?	X		

Zone 6 :	**yes**	**no**	Fan Model No. Manufacturer:
Operational?	X		RadonAway RP265
Observed Leaks at Seals?		X	
Air Flow at Exhaust Stack?	X		Other Comments / Observations
Vacuum Reading:	-2.0 "H2O		
Alarm Test:			
Alarm sound when fan off?	X		
Indicator lights when fan off?	X		

Repairs Needed and / or Maintenance at this time?

None

Signature:  Date: 3/24/2020

APPENDIX B
LABORATORY REPORTS

Monday, July 08, 2019

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

Project ID: 34-11 BEACH CHANNEL DR
SDG ID: GCD48522
Sample ID#s: CD48522 - CD48526

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

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

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

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

NY # 11301

SDG Comments

July 08, 2019

SDG I.D.: GCD48522

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

NY # 11301

Sample Id Cross Reference

July 08, 2019

SDG I.D.: GCD48522

Project ID: 34-11 BEACH CHANNEL DR

Client Id	Lab Id	Matrix
15MW1	CD48522	GROUND WATER
15MW2	CD48523	GROUND WATER
15MW3	CD48524	GROUND WATER
GW DUPLICATE	CD48525	GROUND WATER
TRIP BLANKS	CD48526	GROUND WATER

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

July 08, 2019

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:	DM	06/28/19	13:00
Location Code:	EBC	Received by:	CP	07/01/19	14:52
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD48522
Phoenix ID: CD48522

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW1

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	07/01/19	MH	SW8260C	
1,1,1-Trichloroethane	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1-Dichloroethane	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1-Dichloroethene	0.28	J	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1-Dichloropropene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,3-Trichloropropane	ND		0.25	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND		0.50	0.50	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dibromoethane	ND		0.25	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,3-Dichloropropane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
2,2-Dichloropropane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
2-Chlorotoluene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
2-Hexanone	ND		2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	
2-Isopropyltoluene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	1
4-Chlorotoluene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
4-Methyl-2-pentanone	ND		2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW1

Phoenix I.D.: CD48522

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.2	JS	5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	
Benzene	1.6		0.70	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
cis-1,2-Dichloroethene	130		10	2.5	ug/L	10	07/03/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	07/01/19	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	07/01/19	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.45	J	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	07/01/19	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	07/01/19	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
trans-1,2-Dichloroethene	3.4	J	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	07/01/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Vinyl chloride	200		10	2.5	ug/L	10	07/03/19	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	07/01/19	MH	70 - 130 %	
% Bromofluorobenzene	98				%	1	07/01/19	MH	70 - 130 %	
% Dibromofluoromethane	89				%	1	07/01/19	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW1

Phoenix I.D.: CD48522

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	93			%	1	07/01/19	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (10x)	95			%	10	07/03/19	MH	70 - 130 %
% Bromofluorobenzene (10x)	98			%	10	07/03/19	MH	70 - 130 %
% Dibromofluoromethane (10x)	96			%	10	07/03/19	MH	70 - 130 %
% Toluene-d8 (10x)	91			%	10	07/03/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	07/01/19	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/01/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/01/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/01/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/01/19	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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

S - Laboratory solvent, contamination is possible.

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

Phyllis Shiller, Laboratory Director

July 08, 2019

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

July 08, 2019

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:	DM	06/28/19	13:43
Location Code:	EBC	Received by:	CP	07/01/19	14:52
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD48522
Phoenix ID: CD48523

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW2

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	07/03/19	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	07/03/19	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	07/03/19	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	07/03/19	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	07/03/19	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW2

Phoenix I.D.: CD48523

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.9	JS	5.0	2.5	ug/L	1	07/03/19	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	07/03/19	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	07/03/19	MH	SW8260C	
Benzene	0.65	J	0.70	0.25	ug/L	1	07/03/19	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
cis-1,2-Dichloroethene	0.77	J	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	07/03/19	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	07/03/19	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	07/03/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	07/03/19	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	07/03/19	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	07/03/19	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
trans-1,2-Dichloroethene	0.42	J	5.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	07/03/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	07/03/19	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
Vinyl chloride	0.91	J	1.0	0.25	ug/L	1	07/03/19	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	93				%	1	07/03/19	MH	70 - 130 %	
% Bromofluorobenzene	101				%	1	07/03/19	MH	70 - 130 %	
% Dibromofluoromethane	91				%	1	07/03/19	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW2

Phoenix I.D.: CD48523

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	91			%	1	07/03/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	07/03/19	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/03/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/03/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/03/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/03/19	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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

S - Laboratory solvent, contamination is possible.

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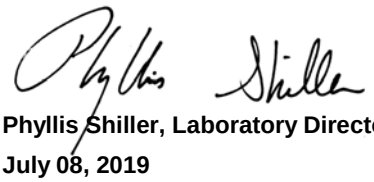

Phyllis Shiller, Laboratory Director

July 08, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 08, 2019

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:	DM	06/28/19	14:25
Location Code:	EBC	Received by:	CP	07/01/19	14:52
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD48522
Phoenix ID: CD48524

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW3

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	07/01/19	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW3

Phoenix I.D.: CD48524

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	9.2	S	5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	
Benzene	1.3		0.70	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
cis-1,2-Dichloroethene	6.3		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	07/01/19	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	07/01/19	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	07/01/19	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	07/01/19	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
trans-1,2-Dichloroethene	0.42	J	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	07/01/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Vinyl chloride	2.8		1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	96				%	1	07/01/19	MH	70 - 130 %	
% Bromofluorobenzene	97				%	1	07/01/19	MH	70 - 130 %	
% Dibromofluoromethane	94				%	1	07/01/19	MH	70 - 130 %	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW3

Phoenix I.D.: CD48524

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	92			%	1	07/01/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	07/01/19	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/01/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/01/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/01/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/01/19	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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

S - Laboratory solvent, contamination is possible.

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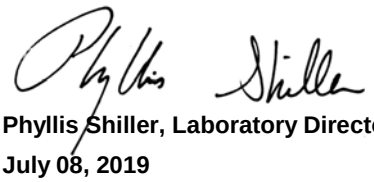

Phyllis Shiller, Laboratory Director

July 08, 2019

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

July 08, 2019

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:	DM	06/28/19	
Location Code:	EBC	Received by:	CP	07/01/19	14:52
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD48522
Phoenix ID: CD48525

Project ID: 34-11 BEACH CHANNEL DR
Client ID: GW 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	07/03/19	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.3	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,1-Dichloroethene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,1-Dichloropropene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.3	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	2.5	2.5	ug/L	5	07/03/19	MH	SW8260C	
1,2-Dibromoethane	ND	1.3	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,2-Dichlorobenzene	ND	4.7	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,2-Dichloroethane	ND	2.5	2.5	ug/L	5	07/03/19	MH	SW8260C	
1,2-Dichloropropane	ND	1.3	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,3-Dichlorobenzene	ND	3.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,3-Dichloropropane	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
1,4-Dichlorobenzene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
2,2-Dichloropropane	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
2-Chlorotoluene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
2-Hexanone	ND	13	13	ug/L	5	07/03/19	MH	SW8260C	
2-Isopropyltoluene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	1
4-Chlorotoluene	ND	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
4-Methyl-2-pentanone	ND	13	13	ug/L	5	07/03/19	MH	SW8260C	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR
Client ID: GW DUPLICATE

Phoenix I.D.: CD48525

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		25	13	ug/L	5	07/03/19	MH	SW8260C	
Acrolein	ND		13	13	ug/L	5	07/03/19	MH	SW8260C	
Acrylonitrile	ND		5.0	5.0	ug/L	5	07/03/19	MH	SW8260C	
Benzene	1.6		1.3	1.3	ug/L	5	07/03/19	MH	SW8260C	
Bromobenzene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Bromochloromethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Bromodichloromethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Bromoform	ND		25	1.3	ug/L	5	07/03/19	MH	SW8260C	
Bromomethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Carbon Disulfide	1.4	J	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Carbon tetrachloride	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Chlorobenzene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Chloroethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Chloroform	ND		7.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Chloromethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
cis-1,2-Dichloroethene	200		20	5.0	ug/L	20	07/01/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND		1.3	1.3	ug/L	5	07/03/19	MH	SW8260C	
Dibromochloromethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Dibromomethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Dichlorodifluoromethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Ethylbenzene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Hexachlorobutadiene	ND		1.0	1.0	ug/L	5	07/03/19	MH	SW8260C	
Isopropylbenzene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
m&p-Xylene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Methyl ethyl ketone	ND		13	13	ug/L	5	07/03/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Methylene chloride	ND		5.0	5.0	ug/L	5	07/03/19	MH	SW8260C	
Naphthalene	ND		5.0	5.0	ug/L	5	07/03/19	MH	SW8260C	
n-Butylbenzene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
n-Propylbenzene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
o-Xylene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
p-Isopropyltoluene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
sec-Butylbenzene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Styrene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
tert-Butylbenzene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Tetrachloroethene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND		25	13	ug/L	5	07/03/19	MH	SW8260C	1
Toluene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
trans-1,2-Dichloroethene	3.6	J	5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND		1.3	1.3	ug/L	5	07/03/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		13	13	ug/L	5	07/03/19	MH	SW8260C	
Trichloroethene	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Trichlorofluoromethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Trichlorotrifluoroethane	ND		5.0	1.3	ug/L	5	07/03/19	MH	SW8260C	
Vinyl chloride	300		20	5.0	ug/L	20	07/01/19	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (5x)	95				%	5	07/03/19	MH	70 - 130 %	
% Bromofluorobenzene (5x)	101				%	5	07/03/19	MH	70 - 130 %	
% Dibromofluoromethane (5x)	93				%	5	07/03/19	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR
Client ID: GW DUPLICATE

Phoenix I.D.: CD48525

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (5x)	92			%	5	07/03/19	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (20x)	97			%	20	07/01/19	MH	70 - 130 %
% Bromofluorobenzene (20x)	100			%	20	07/01/19	MH	70 - 130 %
% Dibromofluoromethane (20x)	97			%	20	07/01/19	MH	70 - 130 %
% Toluene-d8 (20x)	93			%	20	07/01/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	500		ug/l	5	07/03/19	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (5x)	95			%	5	07/03/19	MH	70 - 130 %
% Bromofluorobenzene (5x)	101			%	5	07/03/19	MH	70 - 130 %
% Dibromofluoromethane (5x)	93			%	5	07/03/19	MH	70 - 130 %
% Toluene-d8 (5x)	92			%	5	07/03/19	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.0		ug/L	5	07/03/19	MH	SW8260C
Acrolein	ND	13		ug/L	5	07/03/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	5	07/03/19	MH	SW8260C
Tert-butyl alcohol	ND	250		ug/L	5	07/03/19	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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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

Phyllis Shiller, Laboratory Director
July 08, 2019
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

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Analysis Report

July 08, 2019

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:	DM	06/28/19	
Location Code:	EBC	Received by:	CP	07/01/19	14:52
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD48522
Phoenix ID: CD48526

Project ID: 34-11 BEACH CHANNEL DR
Client ID: TRIP BLANKS

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	07/01/19	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	07/01/19	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: TRIP BLANKS

Phoenix I.D.: CD48526

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/01/19	MH	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	07/01/19	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	07/01/19	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	07/01/19	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	07/01/19	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/01/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	07/01/19	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	07/01/19	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	91			%	1	07/01/19	MH	70 - 130 %	
% Bromofluorobenzene	93			%	1	07/01/19	MH	70 - 130 %	
% Dibromofluoromethane	92			%	1	07/01/19	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR
Client ID: TRIP BLANKS

Phoenix I.D.: CD48526

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	89			%	1	07/01/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	07/01/19	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/01/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/01/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/01/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/01/19	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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director
July 08, 2019
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

July 08, 2019

QA/QC Data

SDG I.D.: GCD48522

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 486444 (ug/L), QC Sample No: CD48523 (CD48522 (10X) , CD48523, CD48525 (5X))										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	119	120	0.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	113	100	12.2				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	122	124	1.6				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	110	116	5.3				70 - 130	30
1,1-Dichloroethane	ND	1.0	116	101	13.8				70 - 130	30
1,1-Dichloroethene	ND	1.0	121	105	14.2				70 - 130	30
1,1-Dichloropropene	ND	1.0	107	111	3.7				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	100	100	0.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	110	115	4.4				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	111	111	0.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	111	114	2.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	119	117	1.7				70 - 130	30
1,2-Dibromoethane	ND	1.0	118	118	0.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	115	117	1.7				70 - 130	30
1,2-Dichloroethane	ND	1.0	117	136	15.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	113	117	3.5				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	109	113	3.6				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	112	117	4.4				70 - 130	30
1,3-Dichloropropane	ND	1.0	118	117	0.9				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	111	114	2.7				70 - 130	30
1,4-dioxane	ND	100	92	104	12.2				70 - 130	30
2,2-Dichloropropane	ND	1.0	123	105	15.8				70 - 130	30
2-Chlorotoluene	ND	1.0	114	116	1.7				70 - 130	30
2-Hexanone	ND	5.0	104	105	1.0				70 - 130	30
2-Isopropyltoluene	ND	1.0	98	103	5.0				70 - 130	30
4-Chlorotoluene	ND	1.0	112	114	1.8				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	103	101	2.0				70 - 130	30
Acetone	ND	5.0	110	98	11.5				70 - 130	30
Acrolein	ND	5.0	101	82	20.8				70 - 130	30
Acrylonitrile	ND	5.0	104	87	17.8				70 - 130	30
Benzene	ND	0.70	107	125	15.5				70 - 130	30
Bromobenzene	ND	1.0	113	116	2.6				70 - 130	30
Bromochloromethane	ND	1.0	116	100	14.8				70 - 130	30
Bromodichloromethane	ND	0.50	115	119	3.4				70 - 130	30
Bromoform	ND	1.0	112	110	1.8				70 - 130	30
Bromomethane	ND	1.0	68	68	0.0				70 - 130	30
Carbon Disulfide	ND	1.0	108	96	11.8				70 - 130	30
Carbon tetrachloride	ND	1.0	115	99	15.0				70 - 130	30
Chlorobenzene	ND	1.0	116	119	2.6				70 - 130	30
Chloroethane	ND	1.0	103	90	13.5				70 - 130	30
Chloroform	ND	1.0	110	102	7.5				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloromethane	ND	1.0	95	83	13.5				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	120	100	18.2				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	116	120	3.4				70 - 130	30
Dibromochloromethane	ND	0.50	127	128	0.8				70 - 130	30
Dibromomethane	ND	1.0	115	117	1.7				70 - 130	30
Dichlorodifluoromethane	ND	1.0	111	99	11.4				70 - 130	30
Ethylbenzene	ND	1.0	112	118	5.2				70 - 130	30
Hexachlorobutadiene	ND	0.40	109	112	2.7				70 - 130	30
Isopropylbenzene	ND	1.0	113	117	3.5				70 - 130	30
m&p-Xylene	ND	1.0	109	113	3.6				70 - 130	30
Methyl ethyl ketone	ND	5.0	115	93	21.2				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	91	77	16.7				70 - 130	30
Methylene chloride	ND	1.0	113	98	14.2				70 - 130	30
Naphthalene	ND	1.0	110	110	0.0				70 - 130	30
n-Butylbenzene	ND	1.0	113	119	5.2				70 - 130	30
n-Propylbenzene	ND	1.0	111	116	4.4				70 - 130	30
o-Xylene	ND	1.0	114	118	3.4				70 - 130	30
p-Isopropyltoluene	ND	1.0	108	114	5.4				70 - 130	30
sec-Butylbenzene	ND	1.0	113	120	6.0				70 - 130	30
Styrene	ND	1.0	112	116	3.5				70 - 130	30
tert-butyl alcohol	ND	10	107	102	4.8				70 - 130	30
tert-Butylbenzene	ND	1.0	109	114	4.5				70 - 130	30
Tetrachloroethene	ND	1.0	108	113	4.5				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	97	81	18.0				70 - 130	30
Toluene	ND	1.0	110	117	6.2				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	121	106	13.2				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	111	115	3.5				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	98	92	6.3				70 - 130	30
Trichloroethene	ND	1.0	115	118	2.6				70 - 130	30
Trichlorofluoromethane	ND	1.0	91	80	12.9				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	104	89	15.5				70 - 130	30
Vinyl chloride	ND	1.0	101	92	9.3				70 - 130	30
% 1,2-dichlorobenzene-d4	95	%	99	100	1.0				70 - 130	30
% Bromofluorobenzene	100	%	99	102	3.0				70 - 130	30
% Dibromofluoromethane	103	%	99	80	21.2				70 - 130	30
% Toluene-d8	89	%	98	100	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%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 486075 (ug/L), QC Sample No: CD48526 (CD48522, CD48524, CD48525 (20X) , CD48526)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	108	104	3.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	103	102	1.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	111	112	0.9				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	106	106	0.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	108	103	4.7				70 - 130	30
1,1-Dichloroethene	ND	1.0	108	103	4.7				70 - 130	30
1,1-Dichloropropene	ND	1.0	101	95	6.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	109	109	0.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	103	104	1.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	108	108	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCD48522

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,4-Trimethylbenzene	ND	1.0	100	97	3.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	107	115	7.2				70 - 130	30
1,2-Dibromoethane	ND	1.0	110	109	0.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	104	104	0.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	105	109	3.7				70 - 130	30
1,2-Dichloropropane	ND	1.0	107	105	1.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	99	97	2.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	103	102	1.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	107	108	0.9				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	100	102	2.0				70 - 130	30
1,4-dioxane	ND	100	103	98	5.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	110	107	2.8				70 - 130	30
2-Chlorotoluene	ND	1.0	102	100	2.0				70 - 130	30
2-Hexanone	ND	5.0	111	112	0.9				70 - 130	30
2-Isopropyltoluene	ND	1.0	102	100	2.0				70 - 130	30
4-Chlorotoluene	ND	1.0	102	99	3.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	113	111	1.8				70 - 130	30
Acetone	ND	5.0	109	111	1.8				70 - 130	30
Acrolein	ND	5.0	103	107	3.8				70 - 130	30
Acrylonitrile	ND	5.0	103	107	3.8				70 - 130	30
Benzene	ND	0.70	101	99	2.0				70 - 130	30
Bromobenzene	ND	1.0	102	101	1.0				70 - 130	30
Bromochloromethane	ND	1.0	104	105	1.0				70 - 130	30
Bromodichloromethane	ND	0.50	110	108	1.8				70 - 130	30
Bromoform	ND	1.0	111	115	3.5				70 - 130	30
Bromomethane	ND	1.0	118	111	6.1				70 - 130	30
Carbon Disulfide	ND	1.0	110	105	4.7				70 - 130	30
Carbon tetrachloride	ND	1.0	103	99	4.0				70 - 130	30
Chlorobenzene	ND	1.0	106	103	2.9				70 - 130	30
Chloroethane	ND	1.0	105	103	1.9				70 - 130	30
Chloroform	ND	1.0	99	106	6.8				70 - 130	30
Chloromethane	ND	1.0	112	108	3.6				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	109	106	2.8				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	111	108	2.7				70 - 130	30
Dibromochloromethane	ND	0.50	117	116	0.9				70 - 130	30
Dibromomethane	ND	1.0	107	105	1.9				70 - 130	30
Dichlorodifluoromethane	ND	1.0	103	101	2.0				70 - 130	30
Ethylbenzene	ND	1.0	105	101	3.9				70 - 130	30
Hexachlorobutadiene	ND	0.40	107	100	6.8				70 - 130	30
Isopropylbenzene	ND	1.0	100	101	1.0				70 - 130	30
m&p-Xylene	ND	1.0	102	99	3.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	108	114	5.4				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	107	107	0.0				70 - 130	30
Methylene chloride	ND	1.0	102	98	4.0				70 - 130	30
Naphthalene	ND	1.0	109	113	3.6				70 - 130	30
n-Butylbenzene	ND	1.0	103	103	0.0				70 - 130	30
n-Propylbenzene	ND	1.0	102	101	1.0				70 - 130	30
o-Xylene	ND	1.0	107	104	2.8				70 - 130	30
p-Isopropyltoluene	ND	1.0	100	99	1.0				70 - 130	30
sec-Butylbenzene	ND	1.0	104	105	1.0				70 - 130	30
Styrene	ND	1.0	105	103	1.9				70 - 130	30
tert-butyl alcohol	ND	10	103	98	5.0				70 - 130	30
tert-Butylbenzene	ND	1.0	100	100	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCD48522

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrachloroethene	ND	1.0	105	102	2.9				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	97	95	2.1				70 - 130	30
Toluene	ND	1.0	104	103	1.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	113	106	6.4				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	107	107	0.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	119	123	3.3				70 - 130	30
Trichloroethene	ND	1.0	104	104	0.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	90	92	2.2				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	105	101	3.9				70 - 130	30
Vinyl chloride	ND	1.0	107	105	1.9				70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	102	102	0.0				70 - 130	30
% Bromofluorobenzene	96	%	102	102	0.0				70 - 130	30
% Dibromofluoromethane	100	%	100	102	2.0				70 - 130	30
% Toluene-d8	90	%	99	99	0.0				70 - 130	30

Comment:

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

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

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
July 08, 2019

Monday, July 08, 2019

Criteria: NY: 375GWP, GW

State: NY

Sample Criteria Exceedances Report

GCD48522 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD48522	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.6	0.70	0.7	0.7	ug/L
CD48522	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	200	10	2	2	ug/L
CD48522	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CD48522	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD48522	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.6	0.70	1	1	ug/L
CD48522	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD48522	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	130	10	5	5	ug/L
CD48522	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	200	10	2	2	ug/L
CD48523	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD48523	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CD48523	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD48524	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.3	0.70	0.7	0.7	ug/L
CD48524	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	2.8	1.0	2	2	ug/L
CD48524	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	2.8	1.0	2	2	ug/L
CD48524	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD48524	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CD48524	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD48524	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.3	0.70	1	1	ug/L
CD48524	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	6.3	1.0	5	5	ug/L
CD48525	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	300	20	2	2	ug/L
CD48525	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.6	1.3	0.7	0.7	ug/L
CD48525	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	200	20	5	5	ug/L
CD48525	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	300	20	2	2	ug/L
CD48525	$8260DP25R	trans-1,4-dichloro-2-butene	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CD48525	$8260DP25R	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.4	0.4	ug/L
CD48525	$8260DP25R	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CD48525	$8260DP25R	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.4	0.4	ug/L
CD48525	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.04	0.04	ug/L
CD48525	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.6	1.3	1	1	ug/L
CD48525	$8260DP25R	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CD48525	$8260DP25R	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	1	1	ug/L
CD48525	$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.6	0.6	ug/L
CD48525	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.0006	0.0006	ug/L
CD48525	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.04	0.04	ug/L
CD48525	$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	ug/L
CD48525	$NJADD-WM	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
CD48526	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD48526	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD48526	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L

Monday, July 08, 2019

Criteria: NY: 375GWP, GW

State: NY

Sample Criteria Exceedances Report

GCD48522 - EBC

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

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

July 08, 2019 SDG I.D.: GCD48522

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

VOA Narration

CHEM17 07/01/19-2: CD48522, CD48524, CD48525, CD48526

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 28% (20%), Bromoform 21% (20%), Dibromochloromethane 22% (20%), trans-1,4-dichloro-2-butene 32% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.033 (0.05), 2-Hexanone 0.081 (0.1), Acetone 0.045 (0.1), Acrolein 0.034 (0.05), Bromoform 0.064 (0.1), Methyl ethyl ketone 0.065 (0.1), Tetrahydrofuran (THF) 0.046 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.035 (0.05), Acetone 0.048 (0.05), Acrolein 0.038 (0.05), Tetrahydrofuran (THF) 0.045 (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%.

CHEM17 07/03/19-1: CD48522, CD48523, CD48525

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 28% (20%), Bromoform 21% (20%), Dibromochloromethane 22% (20%), trans-1,4-dichloro-2-butene 32% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.033 (0.05), 2-Hexanone 0.081 (0.1), Acetone 0.045 (0.1), Acrolein 0.034 (0.05), Bromoform 0.064 (0.1), Methyl ethyl ketone 0.065 (0.1), Tetrahydrofuran (THF) 0.046 (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 40%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: 1,2-Dibromo-3-chloropropane 0.036 (0.05), Acetone 0.049 (0.05), Acrolein 0.035 (0.05), Tetrahydrofuran (THF) 0.048 (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%.

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

NY Temperature Narration

July 08, 2019

SDG I.D.: GCD48522

The samples in this delivery group were received at 2.8°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX *Environmental Laboratories, Inc.*

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

Temp 2.8 °C Pg 1 of 1

Contact Options:

☐ Fax:
☐ Phone: 631-504-6000
☒ Email: File

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

Project: 34-11 Beach Channel Dr.
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: Derek Merker Date: 6/28/19

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	40 ml VOA Vial [ ] As is [X] HCl
48522	15MW1	GW	6/28/19	13:00	X	3
48523	15MW2	GW	6/28/19	13:43	X	3
48524	15MW3	GW	6/28/19	14:25	X	3
48525	GW Duplicate	GW	6/28/19		X	3
48526	Tripblanks				X	2

Bottle columns: Soil VOA Vials [ ] methanol [ ] H2O; GL Soil container ( ) oz; GL Soil container ( ) oz; 40 ml VOA Vial [ ] As is [X] 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

Relinquished by:	Accepted by:	Date:	Time:
Derek Merker	[signature]	7.1.19	11:38
[signature]	[signature]	7/1/19	14:52

Comments, Special Requirements or Regulations:

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

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

NY
☒ NY 375 GWP
☐ NY375 Unrestricted Use Soil
☐ NY375 Residential Soil
☐ Restricted/Residential
☐ Commercial
☐ Industrial

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

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

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Tuesday, December 17, 2019

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

Project ID: 34-11 BEACH CHANNEL DR
SDG ID: GCE87636
Sample ID#s: CE87636 - CE87640

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

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

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

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

NY # 11301

SDG Comments

December 17, 2019

SDG I.D.: GCE87636

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

NY # 11301

Sample Id Cross Reference

December 17, 2019

SDG I.D.: GCE87636

Project ID: 34-11 BEACH CHANNEL DR

Client Id	Lab Id	Matrix
15MW1	CE87636	GROUND WATER
15MW2	CE87637	GROUND WATER
15MW3	CE87638	GROUND WATER
GW DUPLICATE	CE87639	GROUND WATER
TRIP BLANKS	CE87640	GROUND WATER

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 17, 2019

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:	DM	12/12/19	10:55
Location Code:	EBC	Received by:	CP	12/13/19	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCE87636
Phoenix ID: CE87636

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW1

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	12/14/19	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW1

Phoenix I.D.: CE87636

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	
Benzene	1.4		0.70	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
cis-1,2-Dichloroethene	1.1		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/14/19	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/14/19	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.49	J	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/14/19	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	12/14/19	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
trans-1,2-Dichloroethene	1.5	J	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/14/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Vinyl chloride	0.26	J	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	12/14/19	MH	70 - 130 %	
% Bromofluorobenzene	97				%	1	12/14/19	MH	70 - 130 %	
% Dibromofluoromethane	95				%	1	12/14/19	MH	70 - 130 %	

Ver 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	103			%	1	12/14/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/14/19	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100			%	1	12/14/19	MH	70 - 130 %
% Bromofluorobenzene	97			%	1	12/14/19	MH	70 - 130 %
% Dibromofluoromethane	95			%	1	12/14/19	MH	70 - 130 %
% Toluene-d8	103			%	1	12/14/19	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/14/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/14/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/14/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/14/19	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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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

Phyllis Shiller, Laboratory Director
December 17, 2019
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 17, 2019

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:	DM	12/12/19	12:00
Location Code:	EBC	Received by:	CP	12/13/19	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCE87636
Phoenix ID: CE87637

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW2

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	12/14/19	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW2

Phoenix I.D.: CE87637

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	
Benzene	0.58	J	0.70	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
cis-1,2-Dichloroethene	0.64	J	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/14/19	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/14/19	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/14/19	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	12/14/19	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/14/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Vinyl chloride	0.36	J	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	12/14/19	MH	70 - 130 %	
% Bromofluorobenzene	95				%	1	12/14/19	MH	70 - 130 %	
% Dibromofluoromethane	90				%	1	12/14/19	MH	70 - 130 %	

Ver 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	12/14/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/14/19	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98			%	1	12/14/19	MH	70 - 130 %
% Bromofluorobenzene	95			%	1	12/14/19	MH	70 - 130 %
% Dibromofluoromethane	90			%	1	12/14/19	MH	70 - 130 %
% Toluene-d8	99			%	1	12/14/19	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/14/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/14/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/14/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/14/19	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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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

Phyllis Shiller, Laboratory Director
December 17, 2019
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 17, 2019

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:	DM	12/12/19	12:50
Location Code:	EBC	Received by:	CP	12/13/19	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCE87636
Phoenix ID: CE87638

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW3

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	12/16/19	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,1,2-Trichloroethane	ND	2.5	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,1-Dichloroethene	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,1-Dichloropropene	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	10	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,2,3-Trichloropropane	ND	2.5	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	10	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.0	5.0	ug/L	10	12/16/19	MH	SW8260C	
1,2-Dibromoethane	ND	2.5	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,2-Dichlorobenzene	ND	4.7	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,2-Dichloroethane	ND	5.0	5.0	ug/L	10	12/16/19	MH	SW8260C	
1,2-Dichloropropane	ND	2.5	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,3-Dichlorobenzene	ND	3.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,3-Dichloropropane	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
1,4-Dichlorobenzene	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
2,2-Dichloropropane	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
2-Chlorotoluene	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
2-Hexanone	ND	25	25	ug/L	10	12/16/19	MH	SW8260C	
2-Isopropyltoluene	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	1
4-Chlorotoluene	ND	5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
4-Methyl-2-pentanone	ND	25	25	ug/L	10	12/16/19	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW3

Phoenix I.D.: CE87638

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		50	25	ug/L	10	12/16/19	MH	SW8260C	
Acrolein	ND		25	25	ug/L	10	12/16/19	MH	SW8260C	
Acrylonitrile	ND		5.0	5.0	ug/L	10	12/16/19	MH	SW8260C	
Benzene	ND		2.5	2.5	ug/L	10	12/16/19	MH	SW8260C	
Bromobenzene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Bromochloromethane	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Bromodichloromethane	ND		10	2.5	ug/L	10	12/16/19	MH	SW8260C	
Bromoform	ND		50	2.5	ug/L	10	12/16/19	MH	SW8260C	
Bromomethane	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Carbon Disulfide	2.9	J	10	2.5	ug/L	10	12/16/19	MH	SW8260C	
Carbon tetrachloride	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Chlorobenzene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Chloroethane	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Chloroform	ND		7.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Chloromethane	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
cis-1,2-Dichloroethene	95		10	2.5	ug/L	10	12/16/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND		2.5	2.5	ug/L	10	12/16/19	MH	SW8260C	
Dibromochloromethane	ND		10	2.5	ug/L	10	12/16/19	MH	SW8260C	
Dibromomethane	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Dichlorodifluoromethane	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Ethylbenzene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Hexachlorobutadiene	ND		2.0	2.0	ug/L	10	12/16/19	MH	SW8260C	
Isopropylbenzene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
m&p-Xylene	ND		10	2.5	ug/L	10	12/16/19	MH	SW8260C	
Methyl ethyl ketone	ND		25	25	ug/L	10	12/16/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		10	2.5	ug/L	10	12/16/19	MH	SW8260C	
Methylene chloride	ND		5.0	5.0	ug/L	10	12/16/19	MH	SW8260C	
Naphthalene	ND		5.0	5.0	ug/L	10	12/16/19	MH	SW8260C	
n-Butylbenzene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
n-Propylbenzene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
o-Xylene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
p-Isopropyltoluene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
sec-Butylbenzene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Styrene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
tert-Butylbenzene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Tetrachloroethene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND		50	25	ug/L	10	12/16/19	MH	SW8260C	1
Toluene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND		2.5	2.5	ug/L	10	12/16/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		25	25	ug/L	10	12/16/19	MH	SW8260C	
Trichloroethene	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Trichlorofluoromethane	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Trichlorotrifluoroethane	ND		5.0	2.5	ug/L	10	12/16/19	MH	SW8260C	
Vinyl chloride	53		10	2.5	ug/L	10	12/16/19	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (10x)	95				%	10	12/16/19	MH	70 - 130 %	
% Bromofluorobenzene (10x)	95				%	10	12/16/19	MH	70 - 130 %	
% Dibromofluoromethane (10x)	99				%	10	12/16/19	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15MW3

Phoenix I.D.: CE87638

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (10x)	94			%	10	12/16/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/14/19	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99			%	1	12/14/19	MH	70 - 130 %
% Bromofluorobenzene	100			%	1	12/14/19	MH	70 - 130 %
% Dibromofluoromethane	100			%	1	12/14/19	MH	70 - 130 %
% Toluene-d8	100			%	1	12/14/19	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/14/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/14/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/14/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/14/19	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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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Phyllis Shiller, Laboratory Director
December 17, 2019
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 17, 2019

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:	DM	12/12/19	
Location Code:	EBC	Received by:	CP	12/13/19	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCE87636
Phoenix ID: CE87639

Project ID: 34-11 BEACH CHANNEL DR
Client ID: GW DUPLICATE

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	12/16/19	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/16/19	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/16/19	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/16/19	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/16/19	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: GW DUPLICATE

Phoenix I.D.: CE87639

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		5.0	2.5	ug/L	1	12/16/19	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/16/19	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/16/19	MH	SW8260C	
Benzene	1.3		0.70	0.25	ug/L	1	12/16/19	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
cis-1,2-Dichloroethene	1.0		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/16/19	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/16/19	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/16/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.41	J	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/16/19	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	12/16/19	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/16/19	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
trans-1,2-Dichloroethene	1.4	J	5.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/16/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/16/19	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
Vinyl chloride	0.27	J	1.0	0.25	ug/L	1	12/16/19	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	12/16/19	MH	70 - 130 %	
% Bromofluorobenzene	93				%	1	12/16/19	MH	70 - 130 %	
% Dibromofluoromethane	97				%	1	12/16/19	MH	70 - 130 %	

Ver 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	12/16/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/16/19	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99			%	1	12/16/19	MH	70 - 130 %
% Bromofluorobenzene	93			%	1	12/16/19	MH	70 - 130 %
% Dibromofluoromethane	97			%	1	12/16/19	MH	70 - 130 %
% Toluene-d8	99			%	1	12/16/19	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/16/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/16/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/16/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/16/19	MH	SW8260C

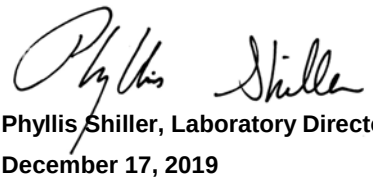
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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



Phyllis Shiller, Laboratory Director
December 17, 2019
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 17, 2019

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:	DM	12/12/19	
Location Code:	EBC	Received by:	CP	12/13/19	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCE87636
Phoenix ID: CE87640

Project ID: 34-11 BEACH CHANNEL DR
Client ID: TRIP BLANKS

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	12/14/19	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/14/19	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: TRIP BLANKS

Phoenix I.D.: CE87640

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/14/19	MH	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/14/19	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	12/14/19	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	12/14/19	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/14/19	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/14/19	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/14/19	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/14/19	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	97			%	1	12/14/19	MH	70 - 130 %	
% Bromofluorobenzene	95			%	1	12/14/19	MH	70 - 130 %	
% Dibromofluoromethane	90			%	1	12/14/19	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR
Client ID: TRIP BLANKS

Phoenix I.D.: CE87640

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	12/14/19	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/14/19	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	97			%	1	12/14/19	MH	70 - 130 %
% Bromofluorobenzene	95			%	1	12/14/19	MH	70 - 130 %
% Dibromofluoromethane	90			%	1	12/14/19	MH	70 - 130 %
% Toluene-d8	101			%	1	12/14/19	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/14/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/14/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/14/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/14/19	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:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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Phyllis Shiller, Laboratory Director
December 17, 2019
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

QA/QC Report

December 17, 2019

QA/QC Data

SDG I.D.: GCE87636

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 510615 (ug/L), QC Sample No: CE87419 (CE87638 (10X))										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	94	93	1.1				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	89	88	1.1				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	98	96	2.1				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	90	85	5.7				70 - 130	30
1,1-Dichloroethane	ND	1.0	85	84	1.2				70 - 130	30
1,1-Dichloroethene	ND	1.0	94	95	1.1				70 - 130	30
1,1-Dichloropropene	ND	1.0	86	85	1.2				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	72	71	1.4				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	90	90	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	80	77	3.8				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	89	88	1.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	99	100	1.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	90	91	1.1				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	90	89	1.1				70 - 130	30
1,2-Dichloroethane	ND	1.0	87	85	2.3				70 - 130	30
1,2-Dichloropropane	ND	1.0	88	86	2.3				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	90	91	1.1				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	89	89	0.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	88	87	1.1				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	89	87	2.3				70 - 130	30
2,2-Dichloropropane	ND	1.0	91	89	2.2				70 - 130	30
2-Chlorotoluene	ND	1.0	91	90	1.1				70 - 130	30
2-Hexanone	ND	5.0	98	96	2.1				70 - 130	30
2-Isopropyltoluene	ND	1.0	100	99	1.0				70 - 130	30
4-Chlorotoluene	ND	1.0	86	85	1.2				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	99	96	3.1				70 - 130	30
Acetone	ND	5.0	92	73	23.0				70 - 130	30
Acrolein	ND	5.0	94	95	1.1				70 - 130	30
Acrylonitrile	ND	5.0	102	93	9.2				70 - 130	30
Benzene	ND	0.70	83	82	1.2				70 - 130	30
Bromobenzene	ND	1.0	94	91	3.2				70 - 130	30
Bromochloromethane	ND	1.0	89	87	2.3				70 - 130	30
Bromodichloromethane	ND	0.50	91	87	4.5				70 - 130	30
Bromoform	ND	1.0	97	96	1.0				70 - 130	30
Bromomethane	ND	1.0	118	117	0.9				70 - 130	30
Carbon Disulfide	ND	1.0	95	95	0.0				70 - 130	30
Carbon tetrachloride	ND	1.0	94	94	0.0				70 - 130	30
Chlorobenzene	ND	1.0	88	88	0.0				70 - 130	30
Chloroethane	ND	1.0	96	96	0.0				70 - 130	30
Chloroform	ND	1.0	86	78	9.8				70 - 130	30
Chloromethane	ND	1.0	99	100	1.0				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	1.0	87	86	1.2				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	89	89	0.0				70 - 130	30
Dibromochloromethane	ND	0.50	98	96	2.1				70 - 130	30
Dibromomethane	ND	1.0	88	85	3.5				70 - 130	30
Dichlorodifluoromethane	ND	1.0	128	127	0.8				70 - 130	30
Ethylbenzene	ND	1.0	89	90	1.1				70 - 130	30
Hexachlorobutadiene	ND	0.40	94	91	3.2				70 - 130	30
Isopropylbenzene	ND	1.0	91	91	0.0				70 - 130	30
m&p-Xylene	ND	1.0	88	88	0.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	106	100	5.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	94	90	4.3				70 - 130	30
Methylene chloride	ND	1.0	87	86	1.2				70 - 130	30
Naphthalene	ND	1.0	82	84	2.4				70 - 130	30
n-Butylbenzene	ND	1.0	90	91	1.1				70 - 130	30
n-Propylbenzene	ND	1.0	93	94	1.1				70 - 130	30
o-Xylene	ND	1.0	89	90	1.1				70 - 130	30
p-Isopropyltoluene	ND	1.0	91	92	1.1				70 - 130	30
sec-Butylbenzene	ND	1.0	95	96	1.0				70 - 130	30
Styrene	ND	1.0	90	90	0.0				70 - 130	30
tert-Butylbenzene	ND	1.0	91	92	1.1				70 - 130	30
Tetrachloroethene	ND	1.0	91	90	1.1				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	90	83	8.1				70 - 130	30
Toluene	ND	1.0	90	88	2.2				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	88	86	2.3				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	91	90	1.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	111	107	3.7				70 - 130	30
Trichloroethene	ND	1.0	86	86	0.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	105	104	1.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	107	105	1.9				70 - 130	30
Vinyl chloride	ND	1.0	100	99	1.0				70 - 130	30
% 1,2-dichlorobenzene-d4	93	%	101	98	3.0				70 - 130	30
% Bromofluorobenzene	91	%	97	98	1.0				70 - 130	30
% Dibromofluoromethane	96	%	103	99	4.0				70 - 130	30
% Toluene-d8	90	%	102	100	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%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 510435 (ug/L), QC Sample No: CE87640 (CE87636, CE87637, CE87638, CE87640)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	105	104	1.0				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	101	101	0.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	104	110	5.6				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	91	91	0.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	103	103	0.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	101	104	2.9				70 - 130	30
1,1-Dichloropropene	ND	1.0	102	102	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	76	81	6.4				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	99	102	3.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	86	88	2.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	94	96	2.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	92	87	5.6				70 - 130	30

QA/QC Data

SDG I.D.: GCE87636

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dibromoethane	ND	1.0	98	97	1.0				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	94	96	2.1				70 - 130	30	
1,2-Dichloroethane	ND	1.0	92	91	1.1				70 - 130	30	
1,2-Dichloropropane	ND	1.0	101	100	1.0				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	104	108	3.8				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	99	100	1.0				70 - 130	30	
1,3-Dichloropropane	ND	1.0	99	100	1.0				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	97	97	0.0				70 - 130	30	
1,4-dioxane	ND	100	114	132	14.6				70 - 130	30	I
2,2-Dichloropropane	ND	1.0	109	108	0.9				70 - 130	30	
2-Chlorotoluene	ND	1.0	104	108	3.8				70 - 130	30	
2-Hexanone	ND	5.0	92	90	2.2				70 - 130	30	
2-Isopropyltoluene	ND	1.0	111	114	2.7				70 - 130	30	
4-Chlorotoluene	ND	1.0	103	104	1.0				70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	88	87	1.1				70 - 130	30	
Acetone	ND	5.0	94	92	2.2				70 - 130	30	
Acrolein	ND	5.0	96	99	3.1				70 - 130	30	
Acrylonitrile	ND	5.0	94	90	4.3				70 - 130	30	
Benzene	ND	0.70	94	92	2.2				70 - 130	30	
Bromobenzene	ND	1.0	97	101	4.0				70 - 130	30	
Bromochloromethane	ND	1.0	90	95	5.4				70 - 130	30	
Bromodichloromethane	ND	0.50	98	96	2.1				70 - 130	30	
Bromoform	ND	1.0	91	94	3.2				70 - 130	30	
Bromomethane	ND	1.0	134	139	3.7				70 - 130	30	I
Carbon Disulfide	ND	1.0	112	112	0.0				70 - 130	30	
Carbon tetrachloride	ND	1.0	109	109	0.0				70 - 130	30	
Chlorobenzene	ND	1.0	98	98	0.0				70 - 130	30	
Chloroethane	ND	1.0	108	106	1.9				70 - 130	30	
Chloroform	ND	1.0	103	101	2.0				70 - 130	30	
Chloromethane	ND	1.0	104	105	1.0				70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	101	101	0.0				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	97	97	0.0				70 - 130	30	
Dibromochloromethane	ND	0.50	102	101	1.0				70 - 130	30	
Dibromomethane	ND	1.0	91	89	2.2				70 - 130	30	
Dichlorodifluoromethane	ND	1.0	109	109	0.0				70 - 130	30	
Ethylbenzene	ND	1.0	94	91	3.2				70 - 130	30	
Hexachlorobutadiene	ND	0.40	106	107	0.9				70 - 130	30	
Isopropylbenzene	ND	1.0	105	108	2.8				70 - 130	30	
m&p-Xylene	ND	1.0	92	91	1.1				70 - 130	30	
Methyl ethyl ketone	ND	5.0	93	97	4.2				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	90	92	2.2				70 - 130	30	
Methylene chloride	ND	1.0	98	98	0.0				70 - 130	30	
Naphthalene	ND	1.0	78	82	5.0				70 - 130	30	
n-Butylbenzene	ND	1.0	111	112	0.9				70 - 130	30	
n-Propylbenzene	ND	1.0	108	112	3.6				70 - 130	30	
o-Xylene	ND	1.0	91	91	0.0				70 - 130	30	
p-Isopropyltoluene	ND	1.0	107	109	1.9				70 - 130	30	
sec-Butylbenzene	ND	1.0	116	119	2.6				70 - 130	30	
Styrene	ND	1.0	95	94	1.1				70 - 130	30	
tert-butyl alcohol	ND	10	97	120	21.2				70 - 130	30	
tert-Butylbenzene	ND	1.0	108	108	0.0				70 - 130	30	
Tetrachloroethene	ND	1.0	97	95	2.1				70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	91	86	5.6				70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Toluene	ND	1.0	89	89	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	100	100	0.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	98	97	1.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	122	128	4.8				70 - 130	30
Trichloroethene	ND	1.0	99	99	0.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	98	99	1.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	107	107	0.0				70 - 130	30
Vinyl chloride	ND	1.0	95	95	0.0				70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	98	98	0.0				70 - 130	30
% Bromofluorobenzene	93	%	98	97	1.0				70 - 130	30
% Dibromofluoromethane	91	%	96	97	1.0				70 - 130	30
% Toluene-d8	100	%	99	98	1.0				70 - 130	30

Comment:

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

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

QA/QC Batch 510633 (ug/L), QC Sample No: CE88234 (CE87639)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	98	101	3.0				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	93	92	1.1				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	102	100	2.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	85	85	0.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	93	95	2.1				70 - 130	30
1,1-Dichloroethene	ND	1.0	87	86	1.2				70 - 130	30
1,1-Dichloropropene	ND	1.0	93	95	2.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	96	95	1.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	95	91	4.3				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	96	99	3.1				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	92	89	3.3				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	92	85	7.9				70 - 130	30
1,2-Dibromoethane	ND	1.0	90	91	1.1				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	94	93	1.1				70 - 130	30
1,2-Dichloroethane	ND	1.0	84	86	2.4				70 - 130	30
1,2-Dichloropropane	ND	1.0	94	92	2.2				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	102	99	3.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	97	98	1.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	94	95	1.1				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	96	95	1.0				70 - 130	30
1,4-dioxane	ND	100	67	87	26.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	95	95	0.0				70 - 130	30
2-Chlorotoluene	ND	1.0	103	98	5.0				70 - 130	30
2-Hexanone	ND	5.0	85	82	3.6				70 - 130	30
2-Isopropyltoluene	ND	1.0	112	110	1.8				70 - 130	30
4-Chlorotoluene	ND	1.0	100	99	1.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	75	77	2.6				70 - 130	30
Acetone	ND	5.0	73	80	9.2				70 - 130	30
Acrolein	ND	5.0	83	84	1.2				70 - 130	30
Acrylonitrile	ND	5.0	88	83	5.8				70 - 130	30
Benzene	ND	0.70	87	86	1.2				70 - 130	30
Bromobenzene	ND	1.0	95	94	1.1				70 - 130	30
Bromochloromethane	ND	1.0	87	88	1.1				70 - 130	30
Bromodichloromethane	ND	0.50	91	91	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCE87636

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromoform	ND	1.0	87	88	1.1				70 - 130	30
Bromomethane	ND	1.0	113	120	6.0				70 - 130	30
Carbon Disulfide	ND	1.0	95	95	0.0				70 - 130	30
Carbon tetrachloride	ND	1.0	99	99	0.0				70 - 130	30
Chlorobenzene	ND	1.0	94	94	0.0				70 - 130	30
Chloroethane	ND	1.0	97	98	1.0				70 - 130	30
Chloroform	ND	1.0	94	93	1.1				70 - 130	30
Chloromethane	ND	1.0	94	96	2.1				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	93	93	0.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	89	90	1.1				70 - 130	30
Dibromochloromethane	ND	0.50	97	95	2.1				70 - 130	30
Dibromomethane	ND	1.0	80	84	4.9				70 - 130	30
Dichlorodifluoromethane	ND	1.0	94	92	2.2				70 - 130	30
Ethylbenzene	ND	1.0	90	88	2.2				70 - 130	30
Hexachlorobutadiene	ND	0.40	106	106	0.0				70 - 130	30
Isopropylbenzene	ND	1.0	102	98	4.0				70 - 130	30
m&p-Xylene	ND	1.0	88	84	4.7				70 - 130	30
Methyl ethyl ketone	ND	5.0	82	81	1.2				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	78	80	2.5				70 - 130	30
Methylene chloride	ND	1.0	78	82	5.0				70 - 130	30
Naphthalene	ND	1.0	92	96	4.3				70 - 130	30
n-Butylbenzene	ND	1.0	105	105	0.0				70 - 130	30
n-Propylbenzene	ND	1.0	103	100	3.0				70 - 130	30
o-Xylene	ND	1.0	88	87	1.1				70 - 130	30
p-Isopropyltoluene	ND	1.0	103	101	2.0				70 - 130	30
sec-Butylbenzene	ND	1.0	112	108	3.6				70 - 130	30
Styrene	ND	1.0	93	91	2.2				70 - 130	30
tert-butyl alcohol	ND	10	99	95	4.1				70 - 130	30
tert-Butylbenzene	ND	1.0	103	100	3.0				70 - 130	30
Tetrachloroethene	ND	1.0	90	89	1.1				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	81	84	3.6				70 - 130	30
Toluene	ND	1.0	82	82	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	95	93	2.1				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	86	90	4.5				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	110	108	1.8				70 - 130	30
Trichloroethene	ND	1.0	92	90	2.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	91	92	1.1				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	93	90	3.3				70 - 130	30
Vinyl chloride	ND	1.0	97	95	2.1				70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	98	99	1.0				70 - 130	30
% Bromofluorobenzene	92	%	97	99	2.0				70 - 130	30
% Dibromofluoromethane	92	%	96	95	1.0				70 - 130	30
% Toluene-d8	100	%	95	99	4.1				70 - 130	30

Comment:

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

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

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

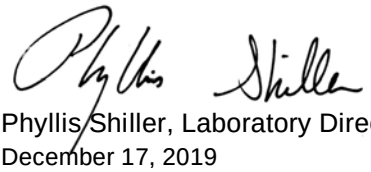
QA/QC Data

SDG I.D.: GCE87636

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

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

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



Phyllis Shiller, Laboratory Director
December 17, 2019

Tuesday, December 17, 2019

Criteria: NY: 375GWP, GW

State: NY

Sample Criteria Exceedances Report

GCE87636 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CE87636	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.4	0.70	0.7	0.7	ug/L
CE87636	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CE87636	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CE87636	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.4	0.70	1	1	ug/L
CE87636	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CE87637	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CE87637	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CE87637	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CE87638	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	53	10	2	2	ug/L
CE87638	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	2.5	0.7	0.7	ug/L
CE87638	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.04	0.04	ug/L
CE87638	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.04	0.04	ug/L
CE87638	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.0006	0.0006	ug/L
CE87638	$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.6	0.6	ug/L
CE87638	$8260DP25R	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	1	1	ug/L
CE87638	$8260DP25R	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	1	1	ug/L
CE87638	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	95	10	5	5	ug/L
CE87638	$8260DP25R	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.4	0.4	ug/L
CE87638	$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.5	0.5	ug/L
CE87638	$8260DP25R	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.4	0.4	ug/L
CE87638	$8260DP25R	trans-1,4-dichloro-2-butene	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
CE87638	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	53	10	2	2	ug/L
CE87638	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	2.5	1	1	ug/L
CE87639	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.3	0.70	0.7	0.7	ug/L
CE87639	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CE87639	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CE87639	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CE87639	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.3	0.70	1	1	ug/L
CE87640	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CE87640	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CE87640	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

December 17, 2019 SDG I.D.: GCE87636

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

VOA Narration

CHEM02 12/14/19-1: CE87636, CE87637, CE87638, CE87640

The following Initial Calibration compounds did not meet RSD% criteria: trans-1,4-dichloro-2-butene 25% (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 0.035 (0.05), 2-Hexanone 0.051 (0.1), 4-Methyl-2-pentanone 0.076 (0.1), Acetone 0.037 (0.1), Acrolein 0.041 (0.05), Acrylonitrile 0.039 (0.05), Methyl ethyl ketone 0.047 (0.1), Tetrahydrofuran (THF) 0.034 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.029 (0.05), 2-Hexanone 0.043 (0.05), Acetone 0.032 (0.05), Acrolein 0.037 (0.05), Acrylonitrile 0.036 (0.05), Methyl ethyl ketone 0.040 (0.05), Tetrahydrofuran (THF) 0.028 (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 12/16/19-2: CE87639

The following Initial Calibration compounds did not meet RSD% criteria: trans-1,4-dichloro-2-butene 25% (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 0.035 (0.05), 2-Hexanone 0.051 (0.1), 4-Methyl-2-pentanone 0.076 (0.1), Acetone 0.037 (0.1), Acrolein 0.041 (0.05), Acrylonitrile 0.039 (0.05), Methyl ethyl ketone 0.047 (0.1), Tetrahydrofuran (THF) 0.034 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.033 (0.05), 2-Hexanone 0.042 (0.05), Acetone 0.030 (0.05), Acrolein 0.034 (0.05), Acrylonitrile 0.032 (0.05), Methyl ethyl ketone 0.036 (0.05), Tetrahydrofuran (THF) 0.026 (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%.

CHEM17 12/16/19-1: CE87638

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 22% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.034 (0.05), 2-Hexanone 0.071 (0.1), Acetone 0.046 (0.1), Acrolein 0.031 (0.05), Bromoform 0.071 (0.1), Methyl ethyl ketone 0.061 (0.1), Tetrahydrofuran (THF) 0.043 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.032 (0.05), Acetone 0.042 (0.05), Acrolein 0.031 (0.05), 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%.

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

NY Temperature Narration

December 17, 2019

SDG I.D.: GCE87636

The samples in this delivery group were received at 2.5°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 2.5°C Pg 1 of 1

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

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

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

Project: 34-11 Beach Channel Dr.
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: Derek Merker Date: 12/12/19

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	Soil VOA Vials [ ]	GL Soil container [ ] methanol [ ] H2O	GL Soil container ( ) oz	( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] As is [ ] HCl	PL H2SO4 [ ] 500ml [ ] 1000ml	PL HNO3 250ml [ ] 250ml [ ] 500ml	PL NaOH 250ml	Bacteria Bottle
876036	15MW1	GW	12/12/19	10:55	X					3						
876037	15MW2	GW	12/12/19	12:00	X					3						
876038	15MW3	GW	12/12/19	12:50	X					3						
876039	GW Duplicate	GW			X					3						
876040	Tripblanks				X					2						

Relinquished by:	Accepted by:	Date:	Time:
Derek Merker		12-12-19	18:15
	Michael Hall	12-13-19	13:15
			16:30

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
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other

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

State where samples were collected: NY

APPENDIX C
GROUNDWATER PURGE LOGS

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15 MW1

Well Depth (from TOC): 29.4'

Static Water Level (from TOC): 6.0'

Height of Water in Well: 23.4'

Gallons of Water per Well Volume:

Flow Rate: 400ml/min.

Date: 6/28/19

Equipment: Peristaltic Pump
Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
12:30		0	7.60	4.07	19.80	0.51	-40	425		Turbid, Light brown
12:33		0.4	7.38	4.31	18.48	0.21	-66	367		Turbid, Light brown
12:38		1.1	6.91	5.52	17.81	0	-81	165		Turbid, light brown
12:43		2.0	6.78	5.96	17.72	0	-83	54.0		Clear
12:48		3.0	6.71	6.08	17.38	0	-85	21.1		Clear
12:53		3.8	6.69	6.02	17.16	0	-87	17.5		Clear
12:58		4.5	6.67	6.04	17.12	0	-88	9.3		Clear, sample

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15MW2

Well Depth (from TOC): 28.6'

Static Water Level (from TOC): 4.55'

Height of Water in Well: 24.05'

Gallons of Water per Well Volume: _____

Flow Rate: 400ml/min.

Date: 6/28/19

Equipment: Peristaltic Pump. Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
13:11		0	7.88	1.57	20.97	0.26	-157	112		Turbid, light brown
13:14		0.5	7.74	2.01	19.26	0	-132	100		Turbid, light brown
13:19		1.1	7.41	2.19	17.77	0	-129	88		clear
13:24		2.4	7.34	2.25	17.66	0	-131	75		Clear
13:29		3.8	7.32	2.28	17.29	0	-135	67		Clear
13:34		4.5	7.32	2.28	17.27	0	-138	58		Clear
13:39		5.6	7.31	2.29	17.25	0	-140	30		clear, sample

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15 MW3

Well Depth (from TOC): 28.85'

Static Water Level (from TOC): 5.4'

Height of Water in Well: 23.45'

Gallons of Water per Well Volume:

Flow Rate: 400ml/min.

Date: 6/28/19

Equipment: Peristaltic Pump
Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
13:45		0	6.89	4.41	20.40	0	-88	179		Turbid, brown
13:51		0.5	6.83	4.62	19.80	0	-87	177		Turbid, brown
13:56		1.1	6.78	4.55	19.52	0	-88	167		Turbid, light brown
14:01		2.0	6.76	4.60	17.71	0	-90	150		Turbid, light brown
14:06		3.1	6.75	4.47	17.61	0	-91	45		Clear
14:11		3.9	6.74	4.37	17.60	0	-93	38		Clear
14:16		4.8	6.74	4.33	17.82	0	-94	32		Clear
14:21		5.6	6.73	4.27	17.80	0	-95	30		Clear, sample

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15 MW1

Well Depth (from TOC): 29.4'

Static Water Level (from TOC): 6.0'

Height of Water in Well: 23.4'

Gallons of Water per Well Volume:

Flow Rate: 400ml/min.

Date: 6/28/19

Equipment: Peristaltic Pump
Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
12:30		0	7.60	4.07	19.80	0.51	-40	425		Turbid, Light brown
12:33		0.4	7.38	4.31	18.48	0.21	-66	367		Turbid, Light brown
12:38		1.1	6.91	5.52	17.81	0	-81	165		Turbid, light brown
12:43		2.0	6.78	5.96	17.72	0	-83	54.0		Clear
12:48		3.0	6.71	6.08	17.38	0	-85	21.1		Clear
12:53		3.8	6.69	6.02	17.16	0	-87	17.5		Clear
12:58		4.5	6.67	6.04	17.12	0	-88	9.3		Clear, sample

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15MW2

Well Depth (from TOC): 28.6'

Static Water Level (from TOC): 4.55'

Height of Water in Well: 24.05'

Gallons of Water per Well Volume: _____

Flow Rate: 400ml/min.

Date: 6/28/19

Equipment: Peristaltic Pump. Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
13:11		0	7.88	1.57	20.97	0.26	-157	112		Turbid, light brown
13:14		0.5	7.74	2.01	19.26	0	-132	100		Turbid, light brown
13:19		1.1	7.41	2.19	17.77	0	-129	88		clear
13:24		2.4	7.34	2.25	17.66	0	-131	75		Clear
13:29		3.8	7.32	2.28	17.29	0	-135	67		Clear
13:34		4.5	7.32	2.28	17.27	0	-138	58		Clear
13:39		5.6	7.31	2.29	17.25	0	-140	30		clear, sample

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15 MW3

Well Depth (from TOC): 28.85'

Static Water Level (from TOC): 5.4'

Height of Water in Well: 23.45'

Gallons of Water per Well Volume:

Flow Rate: 400ml/min.

Date: 6/28/19

Equipment: Peristaltic Pump
Horiba

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
13:45		0	6.89	4.41	20.40	0	-88	179		Turbid, brown
13:51		0.5	6.83	4.62	19.80	0	-87	177		Turbid, brown
13:56		1.1	6.78	4.55	19.52	0	-88	167		Turbid, light brown
14:01		2.0	6.76	4.60	17.71	0	-90	150		Turbid, light brown
14:06		3.1	6.75	4.47	17.61	0	-91	45		Clear
14:11		3.9	6.74	4.37	17.60	0	-93	38		Clear
14:16		4.8	6.74	4.33	17.82	0	-94	32		Clear
14:21		5.6	6.73	4.27	17.80	0	-95	30		Clear, sample

Note 400 ml = 0.11 gallons

SSDS

STARTUP

TESTING

2018

AMC Engineering, PLLC
18-36 42nd Street
Astoria, NY 11105
718-545-0474

FIELD INSPECTION REPORT: Subslab Depressurization System

Project Location: 34-11 Beach Channel Drive

Inspection Location: Far Rockaway, NY 11691 (Queens County)

Date: 8/22/18

Inspected by: Thomas Gallo (EBC

Inspection Witnesses: Kevin (EBC)

Inspection Results:

1. *Compliance with installation details:* Does Not Comply
2. *Compliance with materials of construction:* Complies
3. *Description of risers:* Completed
4. *Compliance with blower installation:* Complies
5. *Compliance with pipe hangers:* Complies
6. *Completion of all components of SSDS:* Incomplete

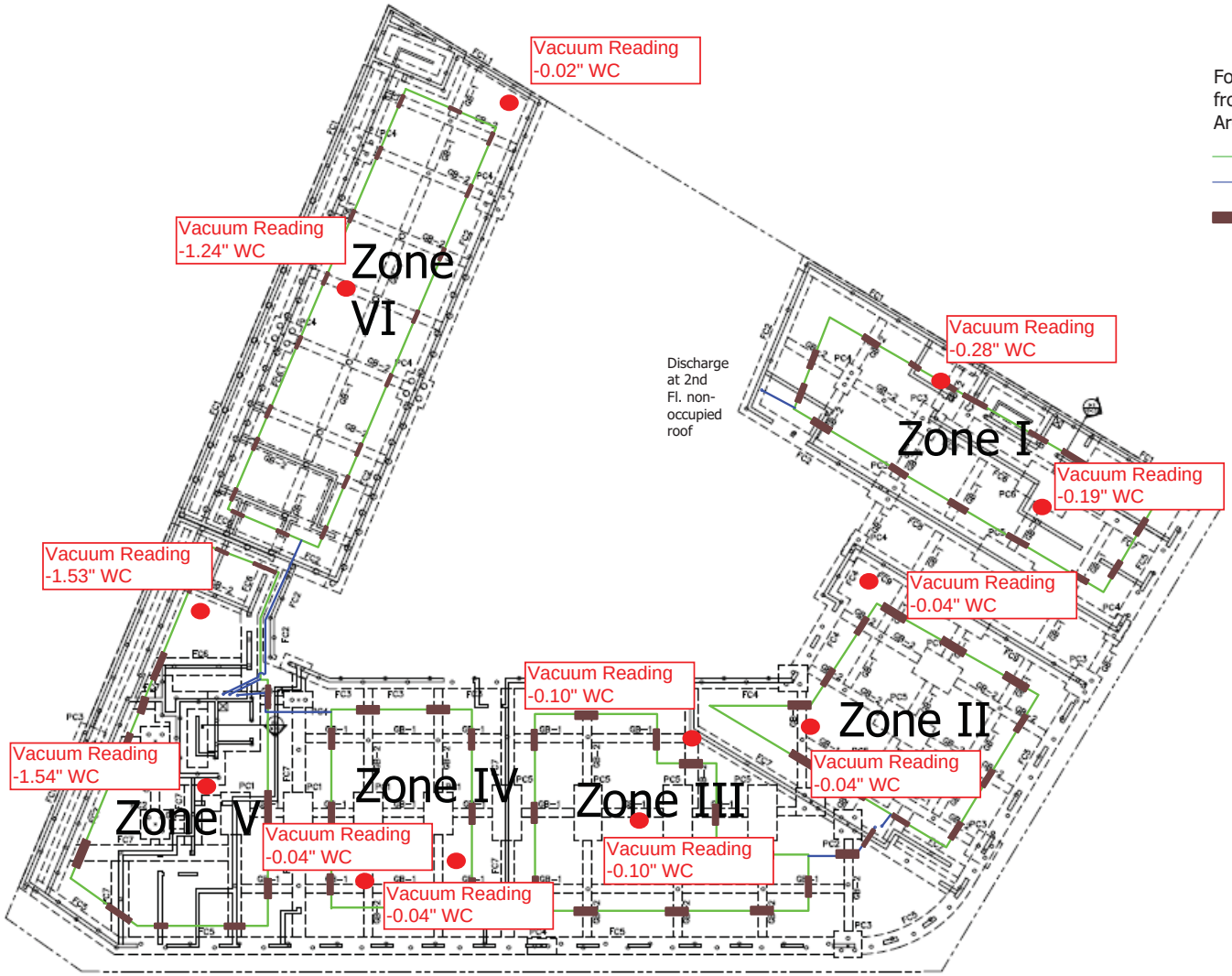
Comments:

On 8/22/18, EBC conducted an inspection of the SSD system. Subslab monitoring points were checked for vacuum. SSDS loops were under vacuum. Magnahelic meters were not yet installed. Alarms, risers and fans were inspected and are operating as designed.

Date: 7/8/2020

Signature and Seal:

Figure 9 - Subslab Depressurization System Design



Foundation plan obtained from FO-001 from Aufgang Architect

- 4" HDPE CORRUGATED PIPE
- 4" Cast Iron (6" Riser)
- 4" PVC Sleeve cast on Gradebeam - Obtain approval from Structural engineer. Extend 6" on each side of gradebeam for proper coupling to vent pipe.

No	Revision/Issue	Date

AMC ENGINEERING PLLC
99 Jericho Tpke., Ste300J
Jericho, NY 11753
516 417-8588

PROJECT

BEACH CHANNEL
SENIOR HOUSING
34-11 Beach Channel Dr.
QUEENS, NY
B 15950 L 14-24

TITLE

SUBSLAB DEPRESSURIZATION SYSTEM DESIGN

Figure 9

DATE: 8/7/15
PROJECT No:
DRAWING BY: AC
CHK BY:
DWG No: ENV-001
CADO FILE No: 1 of 4

SITE INSPECTION CHECKLIST

SSDS - System Inspection Checklist - ZONES 1 & 2
34-11 Beach Channel Drive
Far Rockaway (Queens), NY

Date: 8/22/18 Time: 12:00

Inspector Name/Organization: Thomas Gallo / EBC

Physical Inspection of Fan- Check seal w/vent line, unusual noises and general condition of unit.

Zone 1:	**yes**	**no**
Operational?	✓	
Observed Leaks at Seals?		✓
Air Flow at Exhaust Stack?	✓	
Vacuum Reading:	-1.0 "H2O	
Alarm Test:		
Alarm sound when fan off?	✓	
Indicator lights when fan off?	✓	

Fan Model No. Manufacturer: RadonAway RP265

Other Comments / Observations
Subslab vacuum measured
-0.28 "wc
-0.19 "wc

Zone 2 :	**yes**	**no**
Operational?	✓	
Observed Leaks at Seals?		✓
Air Flow at Exhaust Stack?	✓	
Vacuum Reading:	-2.0 "H2O	
Alarm Test:		
Alarm sound when fan off?	✓	
Indicator lights when fan off?	✓	

Fan Model No. Manufacturer: RadonAway RP265

Other Comments / Observations
Subslab vacuum measured
-0.04 "wc
-0.04 "wc

Repairs Needed and / or Maintenance at this time?
No repairs needed
Magnehelic Meters to be added

Signature: Thomas Gallo Date: 8/22/2018

SITE INSPECTION CHECKLIST

SSDS - System Inspection Checklist - ZONES 3 & 4
34-11 Beach Channel Drive
Far Rockaway (Queens), NY

Date: 8/22/18 Time: 13:00

Inspector Name/Organization: Thomas Galla / EBC

Physical Inspection of Fan- Check seal w/vent line, unusual noises and general condition of unit.

Zone 3:	**yes**	**no**
Operational?	✓	
Observed Leaks at Seals?		✓
Air Flow at Exhaust Stack?	✓	
Vacuum Reading:	1.7 "H2O	
Alarm Test:		
Alarm sound when fan off?	✓	
Indicator lights when fan off?	✓	

Fan Model No. Manufacturer: Radonaway RP265

Other Comments / Observations
Subslab vacuum measured
-0.10 "wc
-0.10 "wc

Zone 4 :	**yes**	**no**
Operational?	✓	
Observed Leaks at Seals?		✓
Air Flow at Exhaust Stack?	✓	
Vacuum Reading:	2.0 "H2O	
Alarm Test:		
Alarm sound when fan off?	✓	
Indicator lights when fan off?	✓	

Fan Model No. Manufacturer: Radonaway RP265

Other Comments / Observations
Subslab vacuum Measured
-0.04 "wc
-0.04 "wc

Repairs Needed and / or Maintenance at this time?
No repairs Needed
Magnahelic Meters to be added

Signature: [signature] Date: 8/22/2018

SITE INSPECTION CHECKLIST

SSDS - System Inspection Checklist - ZONES 5 & 6
34-11 Beach Channel Drive
Far Rockaway (Queens), NY

Date: 8/22/18 Time: 13:40

Inspector Name/Organization: Thomas Gallo / EBC

Physical Inspection of Fan- Check seal w/vent line, unusual noises and general condition of unit.

Zone 5:	**yes**	**no**
Operational?	✓	
Observed Leaks at Seals?		✓
Air Flow at Exhaust Stack?	✓	
Vacuum Reading:	-2.0 "H2O	
Alarm Test:		
Alarm sound when fan off?	✓	
Indicator lights when fan off?	✓	

Fan Model No. Manufacturer:
RadonAway RP265

Other Comments / Observations
subs/ab vacuum measured
-1.54 "wc
-1.53 "wc

Zone 6 :	**yes**	**no**
Operational?	✓	
Observed Leaks at Seals?		✓
Air Flow at Exhaust Stack?	✓	
Vacuum Reading:	-2.0 "H2O	
Alarm Test:		
Alarm sound when fan off?	✓	
Indicator lights when fan off?	✓	

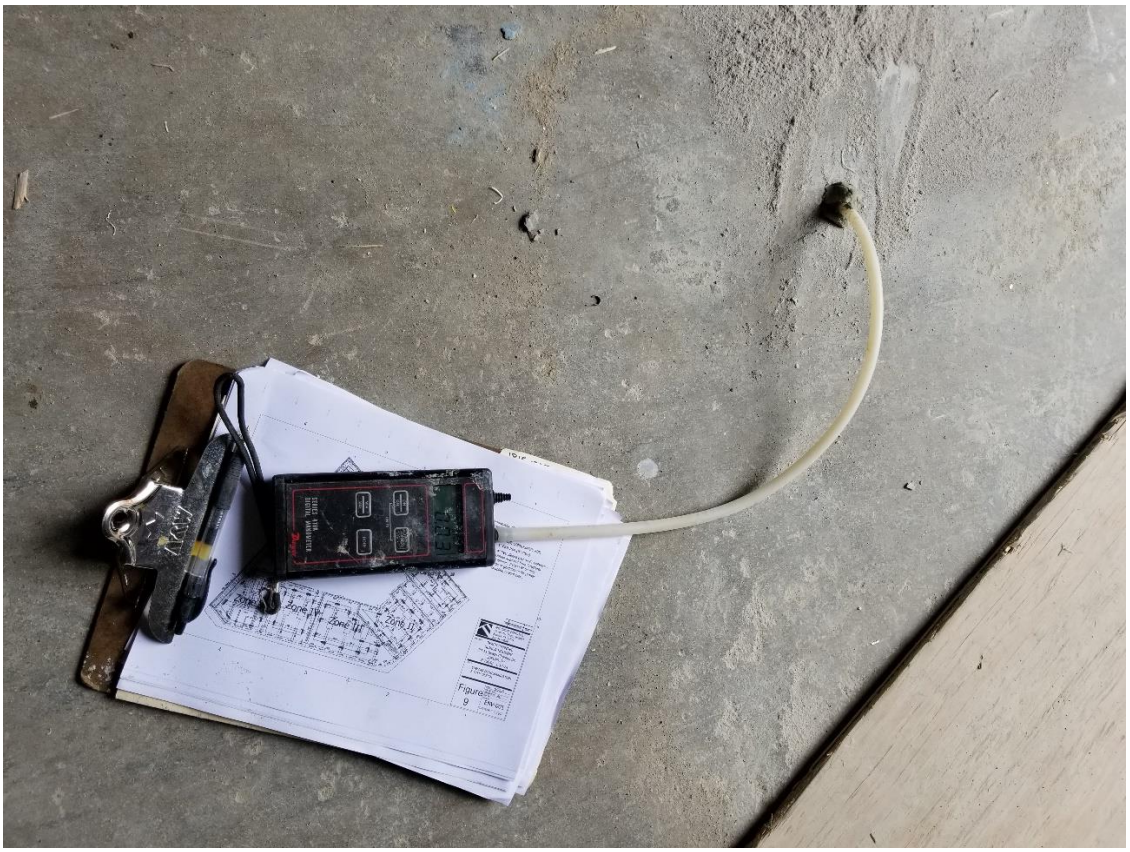
Fan Model No. Manufacturer:
RadonAway RP265

Other Comments / Observations
subs/ab vacuum measured
-1.24 "wc
-0.02 "wc

Repairs Needed and / or Maintenance at this time?
No repairs needed
Magnahelic Meters to be added

Signature: [signature] Date: 8/22/2018

Zone I Riser and Fan



Zone IV subslab vacuum testing

FIELD PHOTOGRAPH
34-11 Beach Channel Drive, Far Rockaway, New York
Date: 8/22/2018, By AMC Engineering PLLC 718 545-0474

Zone IV subslab vacuum testing

FIELD PHOTOGRAPH
34-11 Beach Channel Drive, Far Rockaway, New York
Date: 8/22/2018, By AMC Engineering PLLC 718 545-0474