



*Environmental Management & Consulting*

*Sent via electronic mail (michael.maccabe@dec.ny.gov)*

July 30, 2020

Michael D. MacCabe, P.E.  
Senior Environmental Engineer  
Division of Environmental Remediation  
NYS Department of Environmental Conservation  
625 Broadway, 12th Floor  
Albany, NY 12233-7016

Re: **Annual Groundwater Monitoring Report  
388 Bridge Street Site - Brooklyn, New York  
BCP Site #C224134**

Dear Mr. MacCabe:

Fleming-Lee Shue, Inc. presents this Annual Groundwater Monitoring Report for the 388 Bridge Street property (Site) located at 388 Bridge Street in Brooklyn, NY. The Site is currently in Site Management and this groundwater monitoring event was completed in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved Site Management Plan (SMP) dated December 2013 and subsequent Site Management Plan Modifications dated October 2016 and July 2019. The monitoring program frequency was reduced from semi-annual to annual in a July 2019 NYSDEC email.

**Background**

Results from subsurface investigations performed by FLS from 2008 to 2010 detected tetrachloroethylene (PCE) in both soil and groundwater. In August 2009, the Site was accepted into the NYSDEC Brownfield Cleanup Program (BCP). Remedial activities were conducted in accordance with the NYSDEC-approved Remedial Action Work Plan dated April 2012. The BCP Volunteer achieved a Track 2 remedy at the Site. After completion of the remedial work, residual contamination remained on-Site. Therefore, institutional and engineering controls were incorporated into the Site remedy to control exposure to the remaining contamination.

In June 2013, the SVE system was installed to remove VOCs from soil gas beneath the building slab. The system operated from 2013 through 2016 and included six extraction points (SVE-1, SVE-2, SVE-3, SVE-4, SVE-5 and SVE-6).

In 2016, after monitoring of PCE concentrations and prior approval of NYSDEC, the 2013 SVE system was downsized to limit extraction to where the bulk of the PCE mass remains (SVE-2). Each of the vapor extraction points, except for one location (SVE-2), were converted into groundwater monitoring wells (SVE-MW-1, SVE-MW-3, SVE-MW 4, SVE-MW-5 and SVE-MW-6) to monitor natural attenuation of VOCs.

In July 2016 and with the prior approval of NYSDEC (dated July 29, 2016), SVE-MW-3 and SVE-MW-6 were abandoned because they did not extend into the groundwater table and were therefore not usable as groundwater monitoring wells. Off-Site monitoring wells, MW-3 and MW-7, were destroyed during construction activities.

Once remediation is completed, extraction well SVE-2 will be converted to a groundwater monitoring well and serve as the downgradient well. Figure 2 presents the well locations and results from the last four rounds of groundwater sampling.

In its July 2019 Semi-Annual Groundwater Monitoring Report, FLS recommended a reduction in the frequency of groundwater monitoring from semi-annual to annual based on stable concentrations of PCE and TCE on-Site. NYSDEC approved this reduction in an email, dated July 18, 2019. The Site Management Plan (SMP) was updated to reflect this amendment.

## **Geology and Hydrogeology**

### *Geology*

Regionally, Brooklyn at the western end of Long Island is underlain by sedimentary layers that strike northeast and are inclined gently to the southeast. These layers appear at or near the surface in the vicinity of Long Island Sound, where differential erosion has left relatively tough sands and clays at elevations of more than 60 feet above sea level.

Resting on top of these sands and clays and forming the highest elevation is a belt of glacially deposited debris composed of an unsorted, unstratified mixture of boulders, sand, silt, and clay. This debris was deposited in the interval between 75,000 and 17,000 years ago when the area was covered by a massive sheet of glacial ice. In the vicinity of New York, the ice was moving in a generally southerly direction, bringing with it a huge load of detached bedrock, sediment, and soil that it had scoured from more northerly regions

The geology observed at the Site can be characterized as two major strata groups. The upper stratum is a fill material layer that ranges in thickness from 3 to 17 feet. Beneath the fill layer is a natural glacial till deposit consisting of brown to red-brown, fine- to coarse-grained sand with trace cobbles and boulders.

### *Hydrology*

Historically, groundwater has been encountered at approximately 43 to 45 feet below ground surface. Based on past groundwater monitoring events, local groundwater flow is to the northeast. This localized groundwater flow direction may be influenced by the subway tunnels located north

and southwest of the Site and pumping operations at a Metropolitan Transportation Authority (MTA) de-watering station located within 1.5 miles northeast of the Site.

### **Groundwater Monitoring Program**

The groundwater monitoring program for the Site began in March 2016. The groundwater monitoring program was implemented to monitor natural attenuation of volatile organic compounds (VOC) in groundwater following the downsizing of the soil vapor extraction (SVE) system. The SVE system, installed in 2013, was downsized and modified in 2016 to target the area where the bulk of the contaminant mass remains, primarily in the area of SVE well 2 (SVE-2). Selected soil vapor extraction wells were converted to monitoring wells and included in the groundwater monitoring program. The objectives of the groundwater monitoring program include the following:

- Provide a current round of groundwater analytical data from the monitoring wells;
- Evaluate the existing and time-based groundwater conditions at the Site; and
- Evaluate the time-based trends of VOCs.

The groundwater monitoring program involves the following activities:

- Measurement of groundwater field parameters including depth to water, pH, dissolved oxygen (DO), total dissolved solids (TDS), conductivity, oxidation-reduction potential (ORP), turbidity, salinity, and temperature to determine groundwater conditions;
- Collection of groundwater samples for VOCs to evaluate chlorinated VOC concentration trends and monitor natural attenuation;
- Collection of groundwater samples for geochemical parameters including nitrate, nitrite, sulfate, iron (II), total organic carbon, and dissolved organic carbon to evaluate evidence supporting natural attenuation.

### **Groundwater Sampling Procedures**

On April 24, 2020, groundwater samples were collected from the three on-Site monitoring wells (SVE-MW-1, SVE-MW 4, and SVE-MW-5). Prior to sampling, FLS screened the headspace gases for VOCs with a MiniRAE 3000 Photoionization detector (PID) and collected depth to water measurements. Based on depth to water measurements, groundwater flow is estimated to be to the north. Groundwater samples were collected using the low-flow sampling method (EPA Low-Flow Groundwater Sampling Procedures, April 1996). Each monitoring well was purged prior to sampling using a peristaltic pump until groundwater parameters (temperature, pH, DO, conductivity, ORP, TDS, and turbidity) stabilized, or three well volumes were purged. Water-

quality measurements were monitored using a Horiba U-52 multi-parameter water-quality meter. The monitoring well purge logs are included in Appendix A.

After the stabilization of the groundwater parameters, samples were collected via dedicated pump tubing directly into laboratory-supplied containers. After sample collection each container was labeled, placed on ice in an insulated cooler and transported under chain-of-custody protocol to SGS/Accutest Laboratories of Dayton, New Jersey, a New York Environmental Laboratory Approval Program Certified Laboratory. The groundwater samples were analyzed for Target Compounds List VOCs by EPA Method 8260C and several geochemical parameters.

### **Summary of Analytical Results**

The groundwater analytical results, from the past eight sampling events, were compared to the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (TOGS) and are summarized in Table 1. The laboratory data report is provided in Appendix B.

The groundwater analytical results indicate that PCE remain at similar concentrations to previous events and exceed the TOGS standard of 5 µg/L in each of the monitoring wells sampled: SVE-MW-1 (5.3 µg/L), SVE-MW-4 (20.1 µg/L), and SVE-MW-5 (12.7 µg/L). With the exception of PCE, concentrations of VOCs at SVE-MW-1 were non-detect for all compounds. Trichloroethylene (TCE) and cis-1, 2-dichloroethylene concentrations continue to remain below the TOGS standard in all three monitoring wells. SVE-MW-1 remained non-detect and SVE-MW-4 and SVE-MW-5 decreased to historic low concentrations since groundwater monitoring began in March 2016. Additionally, concentrations of chloroform slightly exceeded the TOGS standard (7.0 µg/L) in a single location, SVE-MW-5 (8.4 µg/L).

An overview of the trends of PCE and TCE concentrations since semi-annual groundwater monitoring began in March 2016 is presented in the attached graphs. Analytical results from this event show that PCE concentrations have either greatly decreased or stayed at similar low-level concentrations at all locations. Particularly at locations SVE-MW-4 and SVE-MW-5, concentrations for PCE reduced from 46.5 µg/L to 20.1 µg/L, and from 36.6 µg/L to 12.7 µg/L, respectively. These changes represent a 56.7% and a 65.3% reduction from the previous event for the respective wells. The concentration of PCE in SVE-MW-1 decreased slightly from the previous event, from 7.3 µg/L to 5.3 µg/L, and has maintained a low concentration asymptotic trend since March 2018. TCE concentrations in all wells have remained below the 5 µg/L TOGS standard since September 2017, and continue to display an asymptotic trend.

### **Conclusions and Recommendations**

Concentrations of chlorinated VOCs either reduced or remained at low level concentrations within all wells during this sampling event. Concentrations of PCE exceeded TOGS standards at all three



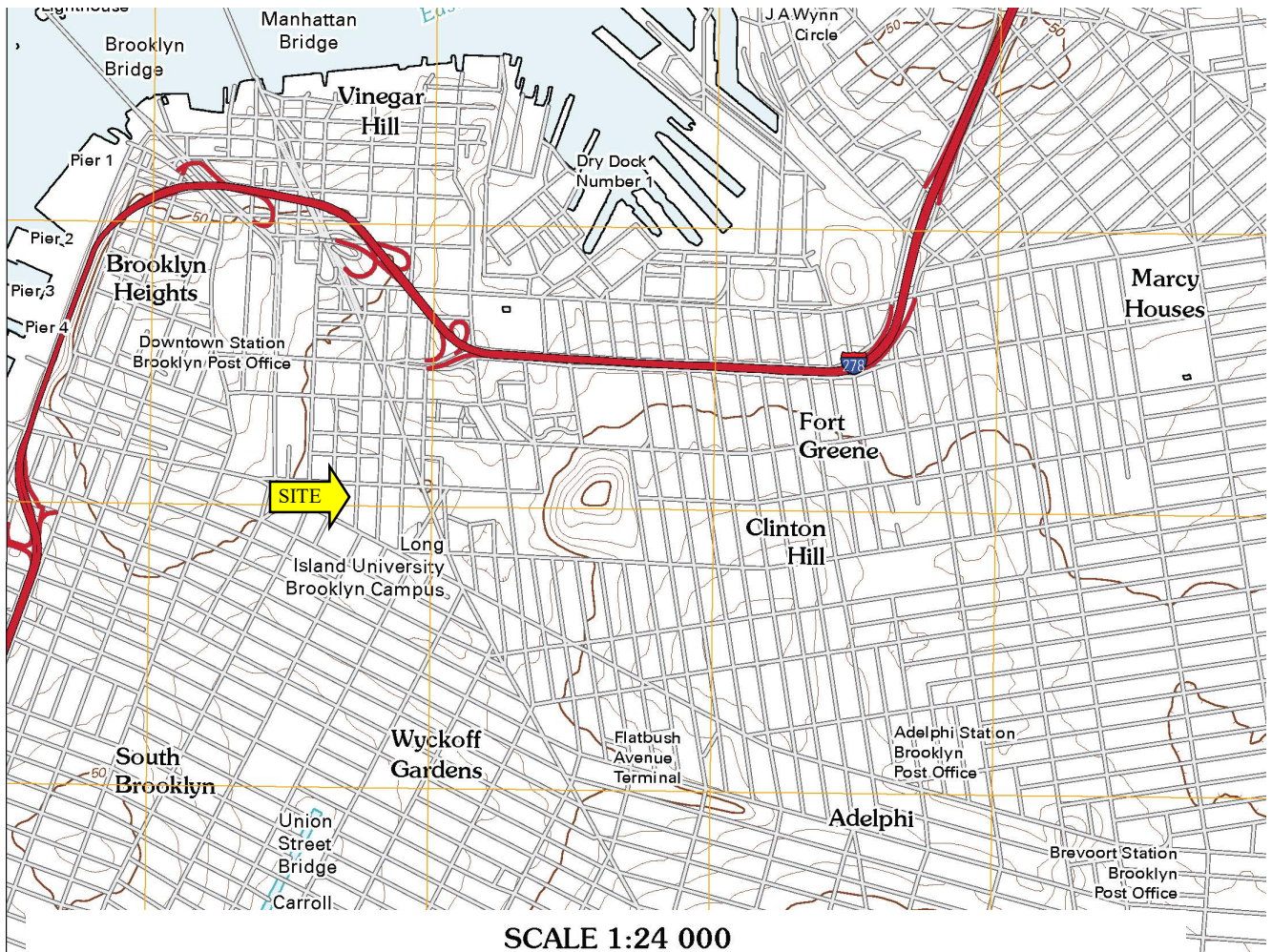
# Tables

Table 1 - Groundwater Analytical Results  
Annual Groundwater Report  
388 Bridge Street, Brooklyn NY

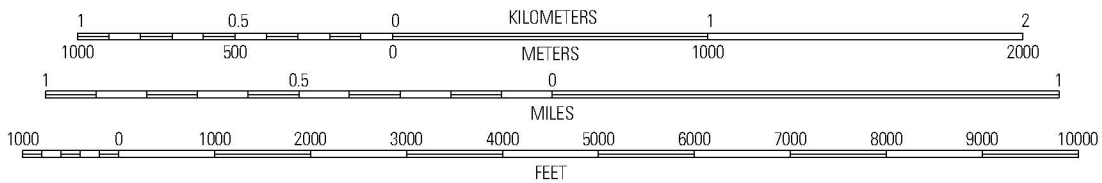
Client Sample ID: Lab Sample ID: Date Sampled: Matrix:	Units	NY TOGS Class GA GW Standards	SVE-MW-1								SVE-MW-4								SVE-MW-5												
			JC17514-1	JC28127-3	JC39116-1	JC51891-1	JC62395-1	JC62395-1	JC87667-1	JD6496-1	JC17514-2	JC28127-2	JC39116-2	JC51891-2	JC62395-3	JC62395-3	JC87667-2	JD6496-2	JC17514-3	JC28127-1	JC39116-3	JC51891-3	JC62395-2	JC73688-3	JC87667-3	JD6496-3					
			3/31/2016	9/20/2016	3/17/2017	9/26/2017	3/14/2018	9/12/2018	5/7/2019	4/24/2020	3/31/2016	9/20/2016	3/17/2017	9/26/2017	3/14/2018	9/12/2018	5/7/2019	4/24/2020	3/31/2016	9/20/2016	3/17/2017	9/26/2017	3/14/2018	9/12/2018	5/7/2019	4/24/2020					
Groundwater																Groundwater								Groundwater							
GC/MS Volatiles (SW846 8260C)																															
Acetone	ug/l	-	ND (3.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (3.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (3.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)				
Benzene	ug/l	1	ND (0.24)	ND (0.14)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.24)	ND (0.14)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.24)	ND (0.14)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)				
Bromochloromethane	ug/l	5	ND (0.37)	ND (0.46)	ND (0.46)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.37)	ND (0.46)	ND (0.46)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.37)	ND (0.46)	ND (0.46)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)				
Bromodichloromethane	ug/l	-	ND (0.23)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.23)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.23)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.58)				
Bromoform	ug/l	-	ND (0.23)	ND (0.34)	ND (0.34)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.23)	ND (0.34)	ND (0.34)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.23)	ND (0.34)	ND (0.34)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)				
Bromomethane	ug/l	5	ND (0.42)	ND (0.46)	ND (0.46)	ND (1.4)	ND (1.4)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (0.42)	ND (0.46)	ND (0.46)	ND (1.4)	ND (1.4)	ND (1.6)	ND (1.6)	ND (1.6)	ND (0.42)	ND (0.46)	ND (0.46)	ND (1.4)	ND (1.4)	ND (1.6)	ND (1.6)	ND (1.6)				
2-Butanone (MEK)	ug/l	-	ND (5.6)	ND (1.9)	ND (1.9)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (5.6)	ND (1.9)	ND (1.9)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)	ND (5.6)	ND (1.9)	ND (1.9)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)				
Carbon disulfide	ug/l	60	ND (0.25)	ND (0.33)	ND (0.33)	ND (0.23)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.25)	ND (0.33)	ND (0.33)	ND (0.23)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.25)	ND (0.33)	ND (0.33)	ND (0.23)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.50)				
Carbon tetrachloride	ug/l	5	ND (0.22)	ND (0.54)	ND (0.54)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.54)	ND (0.54)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.54)	ND (0.54)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)				
Chlorobenzene	ug/l	5	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)				
Chloroethane	ug/l	5	ND (0.34)	ND (0.44)	ND (0.44)	ND (0.59) <sup>a</sup>	ND (0.59)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.34)	ND (0.44)	ND (0.44)	ND (0.59) <sup>a</sup>	ND (0.59)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.34)	ND (0.44)	ND (0.44)	ND (0.59) <sup>a</sup>	ND (0.59)	ND (0.73)	ND (0.73)	ND (0.73)				
Chloroform	ug/l	7	1.7	1	1.3	ND (0.29)	1.2	2.9	3	ND (0.50)	0.89 J	1.3	0.93 J	3.6	10.7	5.7	7.1	1.7	0.79 J	0.85 J	0.71 J	9.9	9.9	6.5	3.8	8.4					
Chloromethane	ug/l	5	ND (0.41)	ND (0.96)	ND (0.96)	ND (0.53) <sup>a</sup>	ND (0.53)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.41)	ND (0.96)	ND (0.96)	ND (0.53) <sup>a</sup>	ND (0.53)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.41)	ND (0.96)	ND (0.96)	ND (0.53) <sup>a</sup>	ND (0.53)	ND (0.76)	ND (0.76)	ND (0.76)				
Cyclohexane	ug/l	-	ND (0.28)	ND (0.73)	ND (0.73)	ND (0.63)	ND (0.63)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.28)	ND (0.73)	ND (0.73)	ND (0.63)	ND (0.63)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.28)	ND (0.73)	ND (0.73)	ND (0.63)	ND (0.63)	ND (0.78)	ND (0.78)	ND (0.78)				
1,2-Dibromo-3-chloropropane	ug/l	0.04	ND (0.99)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2) a	ND (1.2)	ND (1.2)	ND (1.2)	ND (0.99)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2) a	ND (1.2)	ND (1.2)	ND (0.99)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2) <sup>a</sup>	ND (1.2)	ND (1.2)				
Dibromochloromethane	ug/l	-	ND (0.15)	ND (0.23)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.15)	ND (0.23)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.15)	ND (0.23)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.56)				
1,2-Dibromoethane	ug/l	0.0006	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)				
1,2-Dichlorobenzene	ug/l	3	ND (0.19)	ND (0.23)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.19)	ND (0.23)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.19)	ND (0.23)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)				
1,3-Dichlorobenzene	ug/l	3	ND (0.23)	ND (0.19)	ND (0.19)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.23)	ND (0.19)	ND (0.19)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.23)	ND (0.19)	ND (0.19)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)				
1,4-Dichlorobenzene	ug/l	3	ND (0.27)	ND (0.21)	ND (0.21)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.27)	ND (0.21)	ND (0.21)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.27)	ND (0.21)	ND (0.21)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)				
Dichlorodifluoromethane	ug/l	5	ND (0.90)	ND (0.70)	ND (0.70)	ND (1.9) <sup>a</sup>	ND (1.9)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (0.90)	ND (0.70)	ND (0.70)	ND (1.9) <sup>a</sup>	ND (1.9)	ND (1.4)	ND (1.4)	ND (1.4)	ND (0.90)	ND (0.70)	ND (0.70)	ND (1.9) <sup>a</sup>	ND (1.9)	ND (1.4)	ND (1.4)	ND (1.4)				
1,1-Dichloroethane	ug/l	5	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)	ND (0.57)				
1,2-Dichloroethane	ug/l	0.6	ND (0.18)	ND (0.39)	ND (0.39)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.18)	ND (0.39)	ND (0.39)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.18)	ND (0.39)	ND (0.39)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.60)				
1,1-Dichloroethene	ug/l	5	ND (0.51)	ND (0.20)	ND (0.20)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.51)	ND (0.20)	ND (0.20)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.51)	ND (0.20)	ND (0.20)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)	ND (0.59)				
cis-1,2-Dichloroethene	ug/l	5	ND (0.27)	ND (0.31)	ND (0.31)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.85 J	1.6	0.79 J	1.3	0.68 J	6.8	3	ND (0.51)	0.34 J	ND (0.31)	ND (0.31)	1.4	0.52 J	2.3	1.3	ND (0.51)				
trans-1,2-Dichloroethene	ug/l	5	ND (0.65)	ND (0.36)	ND (0.36)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.65)	ND (0.36)	ND (0.36)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.65)	ND (0.36)	ND (0.36)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)				
1,2-Dichloropropane	ug/l	1	ND (0.39)	ND (0.33)	ND (0.33)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.39)	ND (0.33)	ND (0.33)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.39)	ND (0.33)	ND (0.33)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)				
cis-1,3-Dichloropropene	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)				
trans-1,3-Dichloropropene	ug/l	-	ND (0.19)	ND (0.26)	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.19)	ND (0.26)	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.19)	ND (0.26)	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)				
1,4-Dioxane	ug/l	-	ND (41)	ND (32)	ND (32)	ND (52)	ND (52)	ND (69)	ND (69)	ND (69)	ND (69)	ND (41)	ND (32)	ND (32)	ND (52)	ND (52)	ND (69)	ND (69)	ND (69)	ND (41)	ND (32)	ND (32)	ND (52)	ND (52)	ND (69)	ND (69)	ND (69)				
Ethylbenzene	ug/l	5	ND (0.27)	ND (0.20)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.27)	ND (0.20)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.27)	ND (0.20)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)				
Freon 113	ug/l	5	ND (0.52)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (0.52)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.9)	ND (1.9)	ND (1.9)	ND (0.52)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.9)	ND (1.9)	ND (1.9)				
2-Hexanone	ug/l	-	ND (1.7)	ND (1.5)	ND (1.5)	ND (3.3)	ND (3.3)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (1.7)	ND (1.5)	ND (1.5)	ND (3.3)	ND (3.3)	ND (2.0)	ND (2.0)	ND (2.0)	ND (1.7)	ND (1.5)	ND (1.5)	ND (3.3)	ND (3.3)	ND (2.0)	ND (2.0)	ND (2.0)				
Isopropylbenzene	ug/l	5	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.25)	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.25)	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.25)	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)				
Methyl Acetate	ug/l	-	ND (1.9)	ND (1.5)	ND (1.5)	ND (3.1)	ND (3.1)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (1.9)	ND (1.5)	ND (1.5)	ND (3.1)	ND (3.1)	ND (0.80)	ND (0.80)	ND (0.80)	ND (1.9)	ND (1.5)	ND (1.5)	ND (3.1)	ND (3.1)	ND (0.80)	ND (0.80)	ND (0.80)				
Methylcyclohexane	ug/l	-	ND (0.22)	ND (0.78)	ND (0.78)	ND (1.8)	ND (1.8)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	0.31 J	ND (0.78)	ND (0.78)	ND (1.8)	ND (1.8)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.22)	ND (0.78)	ND (0.78)	ND (1.8)	ND (1.8)	ND (0.60)	ND (0.60)	ND (0.60)				
Methyl Tert Butyl Ether	ug/l	10	ND (0.24)	ND (0.34)	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.24 J	ND (0.34)	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.24)	ND (0.34)	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)				
4-Methyl-2-pentanone(MIBK)	ug/l	-	ND (1.0)	ND (1.2)	ND (1.2)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.0)	ND (1.2)	ND (1.2)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.0)	ND (1.2)	ND (1.2)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)				
Methylene chloride	ug/l																														

# Figures





SCALE 1:24 000



CONTOUR INTERVAL 10 FEET

Site: *Brooklyn Quadrangle, New York 7.5 Minute series USGS Topographic Map (79287)\*  
*Obtained from United States Geological Survey topography compiled 2010*

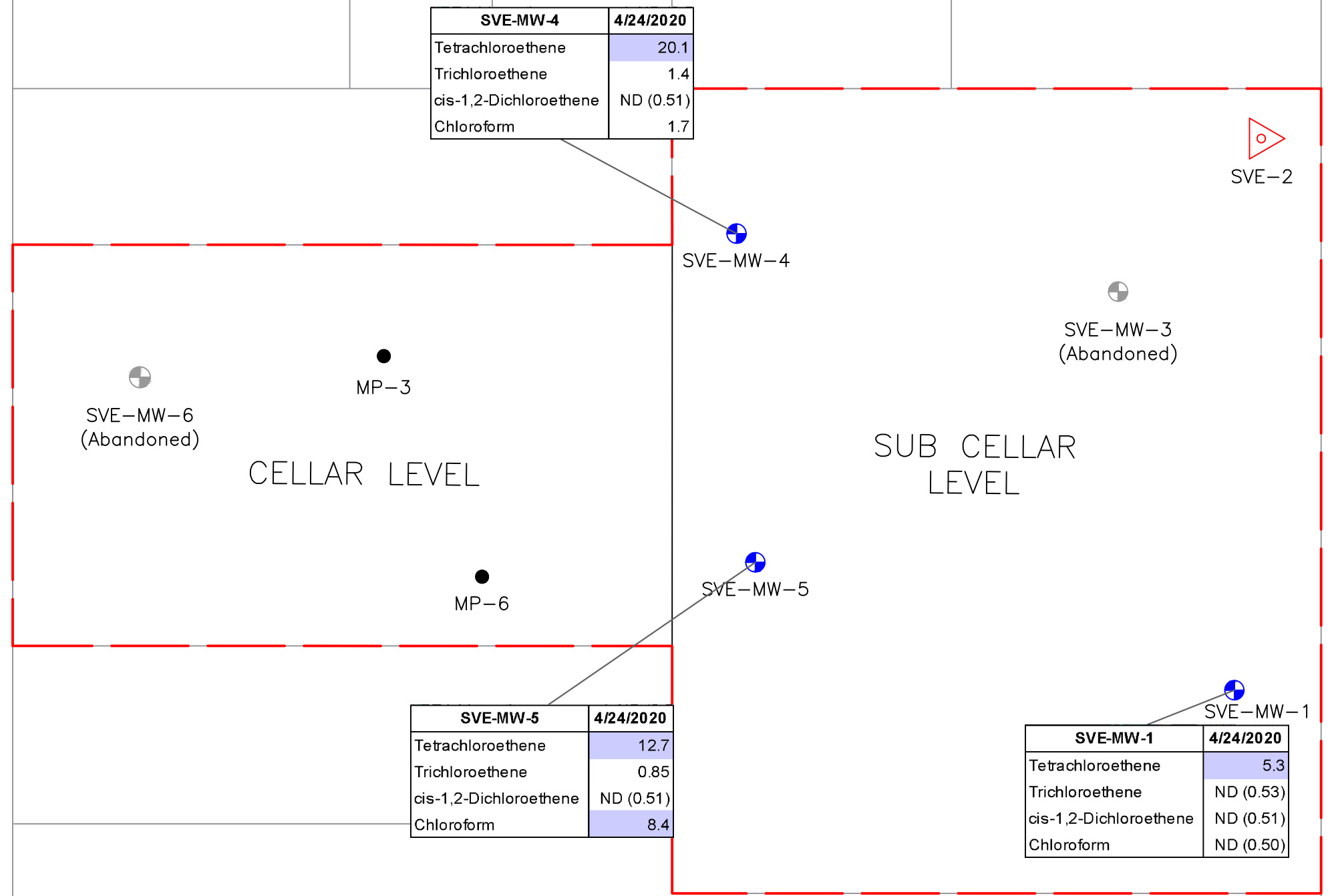
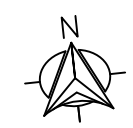
### FIGURE 1: SITE LOCATION MAP



SITE: 384 Bridge Street  
 Brooklyn, New York

FILE: P:\10149 - Stahl Real Estate\001 - 388 Bridge St\Figures\Groundwater Sampling\08 - 2020Q2\Figure 2 - Site Plan with GW Summary.dwg DATE: 5/7/2020

Saint Joseph High School



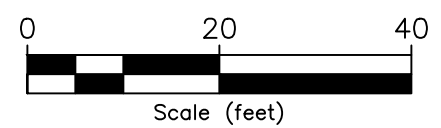
SVE-MW-4	4/24/2020
Tetrachloroethene	20.1
Trichloroethene	1.4
cis-1,2-Dichloroethene	ND (0.51)
Chloroform	1.7

SVE-MW-5	4/24/2020
Tetrachloroethene	12.7
Trichloroethene	0.85
cis-1,2-Dichloroethene	ND (0.51)
Chloroform	8.4

SVE-MW-1	4/24/2020
Tetrachloroethene	5.3
Trichloroethene	ND (0.53)
cis-1,2-Dichloroethene	ND (0.51)
Chloroform	ND (0.50)

Compound	TOGS
Tetrachloroethene	5
Trichloroethene	5
cis-1,2-Dichloroethene	5
Chloroform	7

Notes:  
 Concentrations in ug/L  
 Concentrations in excess of TOGS standards highlighted in blue  
 J - estimated concentration (detection limit)  
 ND - not detected (detection limit)



Environmental Management & Consulting

158 West 29th Street, 9th Fl.  
 New York, NY 10001

388 Bridge Street  
 Brooklyn, NY  
 BCP Site # C224134

**Figure 2**

**Site Plan and Chlorinated VOCs in Groundwater**

**May 2020**

**Project Number 10149-001**

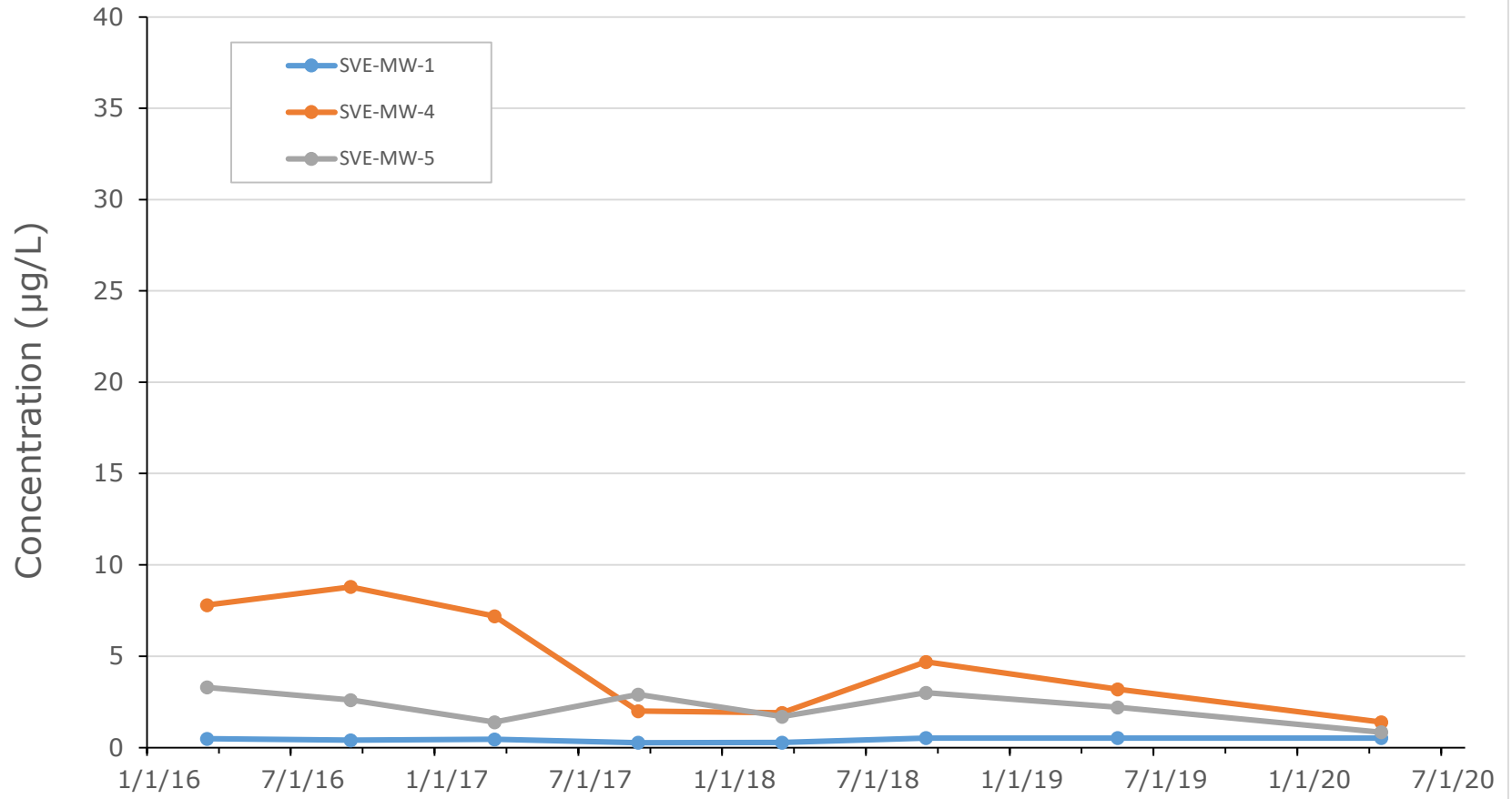
**LEGEND**

- Site Boundary
- Lot Lines
- Active SVE Well
- Groundwater Monitoring Well
- Vacuum Monitoring Point

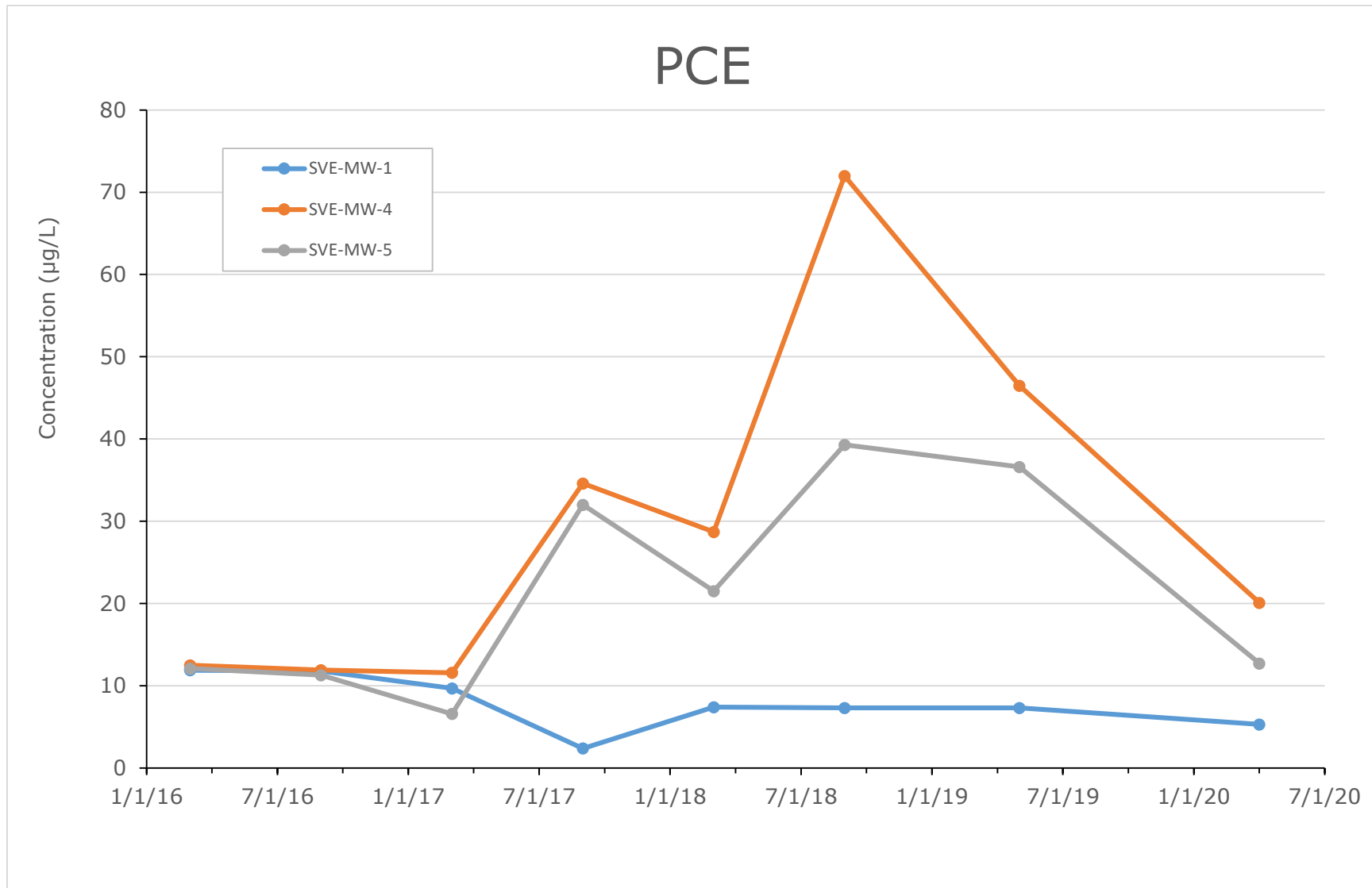
# Graphs

Graphs – Contaminant Concentration Trends  
Annual Groundwater Report  
388 Bridge Street, Brooklyn, NY

# TCE



Graphs – Contaminant Concentration Trends  
Annual Groundwater Report  
388 Bridge Street, Brooklyn, NY



# Appendix A

## Monitoring Well Purge Logs









# Appendix B

## Laboratory Analytical Data Report

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

**Fleming-Lee Shue, Inc.**

**388 Bridge Street, Brooklyn, NY**

**10149-001-1**

**SGS Job Number: JD6496**

**Sampling Date: 04/24/20**

### Report to:

**Fleming-Lee Shue, Inc.**

**jordan@flemingleeshue.com**

**ATTN: Jordan Arey**

**Total number of pages in report: 30**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Laura Degenhardt".

**Laura Degenhardt**  
**General Manager**

**Client Service contact: Tammy McCloskey 732-329-0200**

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary</b> .....	<b>3</b>
<b>Section 2: Case Narrative/Conformance Summary</b> .....	<b>4</b>
<b>Section 3: Summary of Hits</b> .....	<b>7</b>
<b>Section 4: Sample Results</b> .....	<b>9</b>
<b>4.1:</b> JD6496-1: SVE-MW-1 .....	10
<b>4.2:</b> JD6496-1F: SVE-MW-1 .....	13
<b>4.3:</b> JD6496-2: SVE-MW-4 .....	14
<b>4.4:</b> JD6496-2F: SVE-MW-4 .....	17
<b>4.5:</b> JD6496-3: SVE-MW-5 .....	18
<b>4.6:</b> JD6496-3F: SVE-MW-5 .....	21
<b>4.7:</b> JD6496-4: FIELD BLANK .....	22
<b>4.8:</b> JD6496-4F: FIELD BLANK .....	25
<b>4.9:</b> JD6496-5: TRIP BLANK .....	26
<b>Section 5: Misc. Forms</b> .....	<b>28</b>
<b>5.1:</b> Chain of Custody .....	29

1

2

3

4

5



## Sample Summary

Fleming-Lee Shue, Inc.

**Job No:** JD6496

388 Bridge Street, Brooklyn, NY  
 Project No: 10149-001-1

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:  
 Organics ND = Not detected above the MDL

JD6496-1	04/24/20	10:15 JA	04/25/20	AQ	Ground Water	SVE-MW-1
JD6496-1F	04/24/20	10:15 JA	04/25/20	AQ	Groundwater Filtered	SVE-MW-1
JD6496-2	04/24/20	11:40 JA	04/25/20	AQ	Ground Water	SVE-MW-4
JD6496-2F	04/24/20	11:40 JA	04/25/20	AQ	Groundwater Filtered	SVE-MW-4
JD6496-3	04/24/20	12:55 JA	04/25/20	AQ	Ground Water	SVE-MW-5
JD6496-3F	04/24/20	12:55 JA	04/25/20	AQ	Groundwater Filtered	SVE-MW-5
JD6496-4	04/24/20	14:00 JA	04/25/20	AQ	Field Blank Water	FIELD BLANK
JD6496-4F	04/24/20	14:00 JA	04/25/20	AQ	Field Blank Filtered	FIELD BLANK
JD6496-5	04/24/20	14:00 JA	04/25/20	AQ	Trip Blank Water	TRIP BLANK

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** Fleming-Lee Shue, Inc.

**Job No** JD6496

**Site:** 388 Bridge Street, Brooklyn, NY

**Report Date** 5/11/2020 12:41:35 P

On 04/25/2020, 5 Sample(s), 1 Trip Blank(s) and 2 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD6496 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

### MS Volatiles By Method SW846 8260C

**Matrix:** AQ

**Batch ID:** VL9513

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD6487-2MS, JD6487-5DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for Cyclohexane, Ethylbenzene, m,p-Xylene, Xylene (total) are outside control limits for sample JD6487-5DUP. Outside control limits due to vial differences.
- JD6496-5 for Bromomethane: Associated CCV outside of control limits low.
- JD6496-1 for Bromomethane: Associated CCV outside of control limits low.
- JD6496-4 for Bromomethane: Associated CCV outside of control limits low.
- JD6496-3 for Bromomethane: Associated CCV outside of control limits low.
- JD6496-2 for Bromomethane: Associated CCV outside of control limits low.

### General Chemistry By Method EPA 300/SW846 9056A

**Matrix:** AQ

**Batch ID:** GP27940

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD6425-5DUP, JD6425-5MS were used as the QC samples for Sulfate.

### General Chemistry By Method EPA 353.2/LACHAT

**Matrix:** AQ

**Batch ID:** GP28062

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD6496-1DUP, JD6496-1MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.

Monday, May 11, 2020

Page 1 of 3

### General Chemistry By Method EPA353.2/SM4500NO2B

**Matrix:** AQ **Batch ID:** R185268

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JD6496-2 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

**Matrix:** AQ **Batch ID:** R185269

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JD6496-3 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

**Matrix:** AQ **Batch ID:** R185270

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JD6496-4 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

**Matrix:** AQ **Batch ID:** R185272

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JD6496-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

### General Chemistry By Method SM3500FE B-11

**Matrix:** AQ **Batch ID:** GN7541

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD6496-1MS, JD6496-1MSD were used as the QC samples for Iron, Ferrous.
- JD6496-2 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.
- JD6496-3 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.
- JD6496-4 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.
- JD6496-1 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

### General Chemistry By Method SM4500NO2 B-11

**Matrix:** AQ **Batch ID:** GN7539

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD6463-3MS, JD6463-3MSD were used as the QC samples for Nitrogen, Nitrite.

### General Chemistry By Method SM5310 B-11

**Matrix:** AQ **Batch ID:** GP28038

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD6443-1FMS, JD6443-1FMSD were used as the QC samples for Dissolved Organic Carbon.

**Matrix:** AQ **Batch ID:** GP28039

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD6496-2MS, JD6496-2MSD were used as the QC samples for Total Organic Carbon.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover



## Summary of Hits

**Job Number:** JD6496  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** 388 Bridge Street, Brooklyn, NY  
**Collected:** 04/24/20



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method	
<b>JD6496-1</b>	<b>SVE-MW-1</b>						
		Tetrachloroethene	5.3	1.0	0.90	ug/l	SW846 8260C
		Nitrogen, Nitrate <sup>a</sup>	4.6	0.11		mg/l	EPA353.2/SM4500NO2B
		Nitrogen, Nitrate + Nitrite	4.6	0.10		mg/l	EPA 353.2/LACHAT
		Nitrogen, Nitrite	0.014	0.010		mg/l	SM4500NO2 B-11
		Sulfate	46.3	2.0		mg/l	EPA 300/SW846 9056A
		Total Organic Carbon	1.4	1.0		mg/l	SM5310 B-11
<b>JD6496-1F</b>	<b>SVE-MW-1</b>						
		Dissolved Organic Carbon	1.5	1.0		mg/l	SM5310 B-11
<b>JD6496-2</b>	<b>SVE-MW-4</b>						
		Chloroform	1.7	1.0	0.50	ug/l	SW846 8260C
		Tetrachloroethene	20.1	1.0	0.90	ug/l	SW846 8260C
		Trichloroethene	1.4	1.0	0.53	ug/l	SW846 8260C
		Nitrogen, Nitrate <sup>a</sup>	6.6	0.31		mg/l	EPA353.2/SM4500NO2B
		Nitrogen, Nitrate + Nitrite	6.6	0.30		mg/l	EPA 353.2/LACHAT
		Sulfate	151	2.0		mg/l	EPA 300/SW846 9056A
		Total Organic Carbon	2.5	1.0		mg/l	SM5310 B-11
<b>JD6496-2F</b>	<b>SVE-MW-4</b>						
		Dissolved Organic Carbon	2.5	1.0		mg/l	SM5310 B-11
<b>JD6496-3</b>	<b>SVE-MW-5</b>						
		Chloroform	8.4	1.0	0.50	ug/l	SW846 8260C
		Tetrachloroethene	12.7	1.0	0.90	ug/l	SW846 8260C
		Trichloroethene	0.85 J	1.0	0.53	ug/l	SW846 8260C
		Nitrogen, Nitrate <sup>a</sup>	3.8	0.11		mg/l	EPA353.2/SM4500NO2B
		Nitrogen, Nitrate + Nitrite	3.8	0.10		mg/l	EPA 353.2/LACHAT
		Sulfate	123	2.0		mg/l	EPA 300/SW846 9056A
		Total Organic Carbon	1.9	1.0		mg/l	SM5310 B-11
<b>JD6496-3F</b>	<b>SVE-MW-5</b>						
		Dissolved Organic Carbon	1.6	1.0		mg/l	SM5310 B-11
<b>JD6496-4</b>	<b>FIELD BLANK</b>						

No hits reported in this sample.

## Summary of Hits

**Job Number:** JD6496  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** 388 Bridge Street, Brooklyn, NY  
**Collected:** 04/24/20



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

**JD6496-4F**      **FIELD BLANK**

No hits reported in this sample.

**JD6496-5**      **TRIP BLANK**

No hits reported in this sample.

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

---

Report of Analysis

---

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-1		
<b>Lab Sample ID:</b> JD6496-1		<b>Date Sampled:</b> 04/24/20
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/25/20
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> 388 Bridge Street, Brooklyn, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L321715.D	1	04/27/20 15:22	ED	n/a	n/a	VL9513
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane <sup>a</sup>	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-1		<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-1		<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> 388 Bridge Street, Brooklyn, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	5.3	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		81-124%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-1	<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-1	<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> 388 Bridge Street, Brooklyn, NY	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron, Ferrous <sup>a</sup>	< 0.20	0.20	mg/l	1	04/25/20 13:20	JOO	SM3500FE B-11
Nitrogen, Nitrate <sup>b</sup>	4.6	0.11	mg/l	1	05/08/20 15:59	KI	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	4.6	0.10	mg/l	1	05/08/20 15:59	KI	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.014	0.010	mg/l	1	04/25/20 11:32	AM	SM4500NO2 B-11
Sulfate	46.3	2.0	mg/l	1	04/29/20 20:11	JW	EPA 300/SW846 9056A
Total Organic Carbon	1.4	1.0	mg/l	1	05/07/20 13:58	CD	SM5310 B-11

(a) Field analysis required. Received out of hold time and analyzed by request.

(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

4.1  
4

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-1	<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-1F	<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> 388 Bridge Street, Brooklyn, NY	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	1.5	1.0	mg/l	1	05/07/20 12:36	CD	SM5310 B-11

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-4		<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-2		<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> 388 Bridge Street, Brooklyn, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L321716.D	1	04/27/20 15:49	ED	n/a	n/a	VL9513
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane <sup>a</sup>	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	1.7	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-4		<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-2		<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> 388 Bridge Street, Brooklyn, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	20.1	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	1.4	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		81-124%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-4 <b>Lab Sample ID:</b> JD6496-2 <b>Matrix:</b> AQ - Ground Water <b>Project:</b> 388 Bridge Street, Brooklyn, NY	<b>Date Sampled:</b> 04/24/20 <b>Date Received:</b> 04/25/20 <b>Percent Solids:</b> n/a
--	---

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron, Ferrous <sup>a</sup>	< 0.20	0.20	mg/l	1	04/25/20 13:20	JOO	SM3500FE B-11
Nitrogen, Nitrate <sup>b</sup>	6.6	0.31	mg/l	1	05/08/20 16:47	KI	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	6.6	0.30	mg/l	3	05/08/20 16:47	KI	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/25/20 11:32	AM	SM4500NO2 B-11
Sulfate	151	2.0	mg/l	1	04/29/20 20:35	JW	EPA 300/SW846 9056A
Total Organic Carbon	2.5	1.0	mg/l	1	05/07/20 14:09	CD	SM5310 B-11

(a) Field analysis required. Received out of hold time and analyzed by request.

(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

---

RL = Reporting Limit

4.3  
4

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-4	<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-2F	<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> 388 Bridge Street, Brooklyn, NY	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	2.5	1.0	mg/l	1	05/07/20 12:48	CD	SM5310 B-11

RL = Reporting Limit

4.4  
4

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-5		<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-3		<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> 388 Bridge Street, Brooklyn, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L321717.D	1	04/27/20 16:16	ED	n/a	n/a	VL9513
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane <sup>a</sup>	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	8.4	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SVE-MW-5	<b>Date Sampled:</b>	04/24/20
<b>Lab Sample ID:</b>	JD6496-3	<b>Date Received:</b>	04/25/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	388 Bridge Street, Brooklyn, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	12.7	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	0.85	1.0	0.53	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		81-124%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-5 <b>Lab Sample ID:</b> JD6496-3 <b>Matrix:</b> AQ - Ground Water <b>Project:</b> 388 Bridge Street, Brooklyn, NY	<b>Date Sampled:</b> 04/24/20 <b>Date Received:</b> 04/25/20 <b>Percent Solids:</b> n/a
--	---

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron, Ferrous <sup>a</sup>	< 0.20	0.20	mg/l	1	04/25/20 13:20	JOO	SM3500FE B-11
Nitrogen, Nitrate <sup>b</sup>	3.8	0.11	mg/l	1	05/08/20 16:01	KI	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	3.8	0.10	mg/l	1	05/08/20 16:01	KI	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/25/20 11:32	AM	SM4500NO2 B-11
Sulfate	123	2.0	mg/l	1	04/29/20 20:59	JW	EPA 300/SW846 9056A
Total Organic Carbon	1.9	1.0	mg/l	1	05/07/20 15:13	CD	SM5310 B-11

(a) Field analysis required. Received out of hold time and analyzed by request.

(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

---

RL = Reporting Limit

4.5  
4

## Report of Analysis

<b>Client Sample ID:</b> SVE-MW-5		<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-3F		<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Groundwater Filtered		<b>Percent Solids:</b> n/a
<b>Project:</b> 388 Bridge Street, Brooklyn, NY		

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	1.6	1.0	mg/l	1	05/07/20 12:59	CD	SM5310 B-11

---

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FIELD BLANK		<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-4		<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Field Blank Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> 388 Bridge Street, Brooklyn, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L321713.D	1	04/27/20 14:28	ED	n/a	n/a	VL9513
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane <sup>a</sup>	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	FIELD BLANK	<b>Date Sampled:</b>	04/24/20
<b>Lab Sample ID:</b>	JD6496-4	<b>Date Received:</b>	04/25/20
<b>Matrix:</b>	AQ - Field Blank Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	388 Bridge Street, Brooklyn, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		81-124%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FIELD BLANK		<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-4		<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Field Blank Water		<b>Percent Solids:</b> n/a
<b>Project:</b> 388 Bridge Street, Brooklyn, NY		

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron, Ferrous <sup>a</sup>	< 0.20	0.20	mg/l	1	04/25/20 13:20	JOO	SM3500FE B-11
Nitrogen, Nitrate <sup>b</sup>	< 0.11	0.11	mg/l	1	05/08/20 16:02	KI	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	05/08/20 16:02	KI	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/25/20 11:32	AM	SM4500NO2 B-11
Sulfate	< 2.0	2.0	mg/l	1	04/29/20 21:23	JW	EPA 300/SW846 9056A
Total Organic Carbon	< 1.0	1.0	mg/l	1	05/07/20 15:26	CD	SM5310 B-11

(a) Field analysis required. Received out of hold time and analyzed by request.

(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

---

RL = Reporting Limit

4.7  
4

## Report of Analysis

<b>Client Sample ID:</b> FIELD BLANK	<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-4F	<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Field Blank Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> 388 Bridge Street, Brooklyn, NY	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	05/07/20 13:27	CD	SM5310 B-11

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> TRIP BLANK		<b>Date Sampled:</b> 04/24/20
<b>Lab Sample ID:</b> JD6496-5		<b>Date Received:</b> 04/25/20
<b>Matrix:</b> AQ - Trip Blank Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> 388 Bridge Street, Brooklyn, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L321714.D	1	04/27/20 14:55	ED	n/a	n/a	VL9513
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane <sup>a</sup>	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	TRIP BLANK	<b>Date Sampled:</b>	04/24/20
<b>Lab Sample ID:</b>	JD6496-5	<b>Date Received:</b>	04/25/20
<b>Matrix:</b>	AQ - Trip Blank Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	388 Bridge Street, Brooklyn, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		81-124%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody



## SGS Sample Receipt Summary

Job Number: JD6496

Client: FLEMING-LEE SHUE, INC.

Project: 388 BRIDGE STREET, BROOKLYN, NY

Date / Time Received: 4/25/2020 9:30:00 AM

Delivery Method: \_\_\_\_\_

Airbill #'s: \_\_\_\_\_

Cooler Temps (Raw Measured) °C: Cooler 1: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

**Cooler Security**

- |                           |                                     |                          |                       |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Cooler Temperature**

- |                              |                                     |                          |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun                              |                          |
| 3. Cooler media:             | Ice (Bag)                           |                          |
| 4. No. Coolers:              | 1                                   |                          |

**Quality Control Preservation**

- |                                 |                                     |                          |                          |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC:    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free:         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Sample Integrity - Documentation**

- |  |                                     |                          |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete:        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Sample Integrity - Condition**

- |                                  |                                     |                          |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample:          | Intact                              |                          |

**Sample Integrity - Instructions**

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear:           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Bottles received for unspecified tests | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 3. Sufficient volume recvd for analysis:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Compositing instructions clear:        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear:          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Test Strip Lot #s:      pH 1-12: 229517      pH 12+: 208717      Other: (Specify) \_\_\_\_\_

Comments

SM089-03  
Rev. Date 12/7/17

JD6496: Chain of Custody

Page 2 of 2

5.1  
5