388 Bridge Street
Brooklyn, New York

NYSDEC BCP Site No. C224134

ANNUAL PERIODIC REVIEW REPORT AND ENGINEERING CERTIFICATION

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EXECUTIVE SUMMARY

This Periodic Review Report (PRR) documents the activities subject to the Site Management Plan (SMP) for 388 Bridge Street (Site) for the reporting period (January 3, 2021 to January 3, 2022). The Site (BCP No. C224134) was remediated under the Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC). The engineering and institutional controls (EC/IC) are maintained in accordance with the NYSDEC-approved SMP.

The purpose of this PRR and Annual Certification is to document on-going Site management activities associated with the permanent ECs and ICs in place at the Site, and to certify that these controls are being maintained in accordance with the SMP.

The Site management activities conducted in 2021 include the following:

- Routine system inspections of the on-Site Soil Vapor Extraction (SVE) system;
- Vapor Carbon disposal from the SVE system;
- Routine system checks of the sub-slab depressurization system (SSDS), a component of the vapor mitigation system implemented at the Site;
- Routine system checks of the off-Site ECs including the SSDS and basement pressurization system (BPS), components of the vapor mitigation systems implemented at 80 Willoughby Street (Former Saint Joseph's High School [SJHS]);
- Annual groundwater sampling and monitoring;
- Visual inspection of the basement floor and perimeter for signs of vapor intrusion;
- Visual inspection of the concrete slab to determine the absence of cracks and fissures.

The implementation of remedial action, Site management activities, and continuous media monitoring were performed by Fleming Engineering. It was determined that ECs and ICs remain effective and continue to be protective of public health and environment. The SVE data collected during monitoring demonstrated that the concentration of tetrachloroethylene (PCE) in the soil vapor has reduced significantly since system start-up in 2013. Groundwater samples have been

collected on a semi-annual basis, starting in March 2016. In July 2019, NYSDEC approved a request to reduce the groundwater monitoring schedule from semi-annual to annual. During the most recent groundwater monitoring event conducted in March 2021 (report dated May 2021) PCE was the only chlorinated VOCs exceeding NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (TOGS). The PCE concentrations have remained largely the same compared to the 2020 sampling event and remain well below pre-treatment maximum concentrations.

Compliance with the EC/IC Plan is further discussed in Section 3. Compliance with the media monitoring plan is discussed in Section 4 and compliance with the Operation and Maintenance of the ECs is discussed in Section 5. Conclusions with recommendations are provided in Section 6.

1.0 SITE OVERVIEW

1.1 Site Description

The Site is located in Downtown Brooklyn, Kings County, New York and is identified as Block 152 and Lots 1001-1006 (formerly Lots 37 and 118) on the current New York City Tax Map. The Site is an approximately 0.46-acre area bounded by the former SJHS (as of September 2020 utilized as the Brooklyn Prospect Downtown Elementary Charter School) and a portion of a 5-story commercial building (Lots 33 and 31, respectively) to the north, a fabric discount store (Lot 6) and ASA Institute of Business (Lot 18) to the south, Bridge Street to the east, and Lawrence Street to the west. The Site Location and Site Plan are included as Figures 1 and 2, respectively. The boundaries of the Site are more fully described in Appendix A - Metes and Bounds. Responsible parties are listed in Table 1.

1.2 Site Development Status

The development on the Site includes the 53-story residential building with retail spaces on the ground floors and parking from the sub cellar to the 3rd floor of the building. The development footprint is a lot line-to-lot line building as shown in Figure 2.

1.3 Nature and Extent of Contamination

Remedial investigations completed at the Site between May 2008 and July 2008 found several underground storage tanks (USTs). NYSDEC spill number #0801499 was opened and then subsequently closed on August 18, 2009 after removal of these USTs. Additional remedial investigations on the Site detected soils indicative of urban fill with elevated levels of semi-volatile organic compounds and metals. Also, elevated levels of chlorinated volatile organic compounds (VOCs) were detected in groundwater and soil vapor samples. Off-Site remedial investigations were completed to determine potential off-Site impacts from the historic dry-cleaning tenant which operated on the Site until 1982. The offsite investigations found elevated levels of chlorinated VOCs from the Site at the former SJHS only.

Of note, a diagnostic testing conducted by FLS in 2015 confirmed that the remaining PCE contamination in soil vapor beneath the building was primarily present in the area of SVE well 2. The SVE system was modified in 2016 to more effectively target the area where soil vapor contamination remains.

1.4 Site Remediation

The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index # A2-0623-07-09. which was executed on August 10, 2009. The BCA was amended on July 13, 2010, to correct the Site size, add a survey map, and add R, K & G Associates, LLC as a Remedial Party.

The Site was remediated in accordance with the NYSDEC-approved Remedial Action Work Plan dated April 2012, which enumerated the following remedial activities:

1. Excavation of soil/fill for development purposes. The soil was screened for indications of contamination (by visual means, odor, and monitoring with a photoionization detector) of all excavated soil during intrusive Site work. All remaining soil met Track 2 Restricted Use Soil Cleanup Objectives (RUSCOs);
2. Off-Site disposal of all material removed from the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal;
3. Collection and analysis of end-point samples to evaluate attainment of Track 2 RUSCOs;
4. Installation of a SVE system to remove soil vapor above New York State Department of Health (NYSDOH) air guideline values (AGV), as listed in the NYSDOH *Final Guidance for Evaluating Vapor Intrusion in the State of New York, October 2006*;
5. Installation of an active SSDS as a preventative measure from residual contamination at the Site;
6. Construction and maintenance of an engineered composite cover consisting of a vapor barrier and a concrete pressure slab to prevent human exposure to residual contaminated soil/fill remaining under the Site;
7. Monitoring natural attenuation of groundwater;

8. Installation of an active SSDS, BPS, and sealing of the elevator pit at SJHS, which borders the Site to the north, to address off-Site soil vapor contamination; and
9. Development of an SMP for long term management of residual contamination as required by the Environmental Easement, including plans for: (1) ECs /ICs, (2) monitoring, (3) operation and maintenance and (4) reporting.

2.0 REMEDY EVALUATION

The annual inspection of the on-Site ECs, which includes the SSDS, composite cover system, and SVE system, demonstrated that the ECs continue to perform as designed and continue to be protective of human health and the environment.

The groundwater sampling results are included in Table 2 and shows that PCE concentrations continue to decline overall compared to pre-remediation concentrations. The SVE monitoring results are included in Table 3 and demonstrate a large reduction in the concentrations of chlorinated VOCs in soil vapor since system start-up. These data are discussed further in Section 4.

The annual inspection of the off-Site ECs, which include the SSDS and a composite cover system, demonstrated that the off-site ECs also continue to perform as designed and continue to be protective of human health and the environment. The EC details and inspection results are discussed in Section 5.

3.0 INSTITUTIONAL AND ENGINEERING CONTROLS COMPLIANCE

3.1 Institutional Controls

The ICs are non-physical controls, such as Site use restrictions, implemented in order to protect human health and the environment. The SMP requires annual certification of the ICs for the Site to ensure that they continue to be implemented in order to prevent exposure to residual contamination. The ICs for the Site include the SMP, Soils/Materials Management Plan, groundwater use, use restrictions, provisions for deed restrictions and environmental easements, EC/IC plans, and the Operation, Maintenance and Monitoring plan.

3.2 Engineering Controls

The ECs are physical controls employed to contain, stabilize, and monitor residual contamination. Since residual contaminated soil, groundwater, and soil vapor exists beneath the Site, the ECs will continue to remain protecting human health and the environment. The on-Site ECs required by the SMP consist of a SSDS, a SVE system, and a composite cover system. The SSDS will not be operational until the SVE system is fully decommissioned. The active SVE system extracts soil vapors from a limited area where the bulk of the PCE mass remains. The SVE system installed in 2013 was modified in 2016 with the approval of NYSDEC and NYSDOH. Groundwater is monitored at the other areas where soil vapor extractions ceased. Off-Site ECs required by the SMP and implemented at the former SJHS consist of an active SSDS, BPS, and a composite cover system.

The SMP requires an annual inspection and certification of the ECs to ensure that they continue to perform as designed and continue to be protective of human health and the environment.

3.3 Certification of Engineering and Institutional Controls

The owner is responsible for overseeing, documenting, and certifying that the Site management activities were performed in accordance with the applicable SMP. The annual certifications were performed by Fleming Engineering on behalf of 384 Bridge Street, LLC. The completed EC/IC Certification Form is provided as Appendix B.

4.0 MONITORING PLAN COMPLIANCE

4.1 Groundwater Monitoring

The majority of the existing groundwater monitoring wells were demolished during building construction. As outlined in the SMP, semi-annual groundwater monitoring is conducted to confirm natural attenuation of chlorinated VOCs in groundwater. Following the modification of the SVE system in January 2016, five of the six SVE wells were converted to groundwater monitoring wells. Of these five, two wells (SVE-MW-3 and SVE-MW-6) were subsequently abandoned as they did not extend into the groundwater table. In an email dated July 18, 2019, NYSDEC granted approval for a reduction in the groundwater monitoring schedule from semi-annual to annual, due to the relatively low and declining concentrations of site-related chlorinated VOCs. The SVE and groundwater monitoring well locations are shown on Figure 3.

In 2021, the annual groundwater monitoring event was completed on March 30, 2021. A report summarizing the groundwater monitoring event was prepared by FLS and submitted to NYSDEC on May 26, 2021. The next annual sampling event is to be conducted in April 2022.

4.2 Groundwater Monitoring Results

From March 2016 to May2019, groundwater samples were collected on a semi-annual basis and analyzed for VOCs and geochemical parameters including nitrate, nitrite, sulfate, ferrous iron, total organic carbon, and dissolved organic carbon. As mentioned previously, NYSDEC approved a reduction in groundwater monitoring frequency from semiannual to annual in July 2019. A copy of the approval is presented as Appendix E.

As discussed in the May 2021 groundwater monitoring report, PCE was the only contaminant of concern detected at concentrations above the TOGS. The highest concentration of PCE was found in SVE-MW-4 (23.1 µg/L), with SVE-MW-5 and SVE-MW-1 following in descending concentrations (13.1 µg/L and 5.5 µg/L respectively). PCE concentrations remain largely the same compared to the last sampling event and remain well below pre-treatment concentrations. Additionally, concentrations of chloroform in monitoring well SVE-MW-5 dropped below the TOGS standard of7.0 µg/L during this reporting period. Concentrations of chloroform decreased from 8.4 µg/L in 2020 to 2.3 µg/L in 2021.

4.3 Soil Vapor Monitoring

The soil vapor monitoring was completed in accordance with the SMP. The objectives of the soil vapor monitoring in conjunction with the SVE system on the Site are to (1) track system performance and (2) monitor for carbon breakthrough. Quarterly sampling of soil vapor was conducted at the system prior to the carbon treatment (influent), after the first carbon treatment unit (midstream), and after the second carbon treatment unit (outlet). Samples were collected with 1-liter summa canisters provided by SGS Accutest Laboratories using 2-hour flow regulators and were analyzed for VOCs by EPA Method TO-15.

4.4 Soil Vapor Monitoring Results

The quarterly soil vapor monitoring analytical results shown in Table 3 were reviewed, and compared to the NYSDOH AGVs for PCE and TCE. The analytical results show that concentrations of PCE and TCE above the AGVs remain in the soil vapor beneath the building.

The results and findings of the soil vapor sampling of the SVE system, are summarized below:

- The highest historical concentrations of PCE (39,700 µg/m^3) and TCE (120 µg/m^3) detected at the 2013 SVE system inlet were recorded on July 3, 2013, one week after the system was turned on.
- Overall, the system installed in 2013 effectively removed 87.88 kg of PCE and 0.30 kg of TCE from June 2013 through October 2016. Graphs showing the cumulative mass removal for PCE and TCE are presented in Figure 4 and 5, respectively.
- Twenty-nine (29) quarterly events have been completed since the modification of the 2016 SVE system.
- In the most recent sampling event, the SVE inlet readings of PCE and TCE were 1,610 µg/m^3 and 6.4 µg/m^3, respectively. When compared to the highest concentrations detected (sample collected July 3, 2013), concentrations of PCE and TCE have been reduced approximately 95.94% and 90.83%, respectively.
- New carbon was installed in the lead and lag carbon vessels on October 12, 2021 following evidence of carbon saturation in the September 2021 sampling event. Spent carbon was

disposed of at an approved facility under EPA ID No. NYD080631369. Waste disposal manifests are included as Appendix F.

- As of the date of the last SVE sampling event, December 9, 2021, the modified SVE system has removed a total of 30.29 kg of PCE and 0.12 kg of TCE since 2016 (Figure 6 and 7).

- To date, a total of eighty-three (83) soil vapor sampling (monthly/quarterly/quality control) events have been completed since initial system installation in 2013. As of the date of the last SVE sampling event, December 9, 2020, a total of 118.16 kg of PCE and 0.41 kg of TCE have been removed and treated from the Site.

5.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE

5.1 Site Inspections

The inspections of the ECs were conducted by Fleming Engineering on a quarterly basis. FLS inspected the on-Site SVE system, the on-Site and off-Site SSDSs, the on-Site and off-Site composite covers, and the off-Site BPS system. The quarterly inspection forms, which tabulate both SVE system readings and on and off-Site vacuum readings are included as Appendix C. Site and SVE system photographs are included in Appendix D.

The inspections consisted of the following elements:

- Inspection of the on-Site SVE system, including temperature and pressure readings at the system's components;
- Pressure readings were collected at the SVE extraction wells using digital manometer;
- Inspections of the on-Site and off-Site SSDSs including differential pressure readings using digital manometer at each of the monitoring points;
- Inspection of the BPS at the off-Site property (former SJHS);
- Inspections of the composite cover systems, including the conditions of the on-Site and off-Site buildings' foundation slab and sidewalls; and
- Inspections of the basement floor and perimeter for signs of moisture intrusion.

5.2 Inspection Results

The ECs for the Site were inspected and continue to perform as designed, protecting human health and the environment. There are no areas where the composite cover systems appeared impaired, compromised or otherwise damaged. During the September 2021 inspection, lower than typical vacuum was observed within sub-slab monitoring points in the former SJHS property. Upon further inspection, a piping disconnect was observed at the SSDS effluent header located just before the SSDS blower. The piping was reconnected, which restored sub-slab vacuum to typical levels. Building staff has been informed of SMP requirements and procedures to be followed in the event of a future alarm.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Compliance with the SMP

Based on the evaluation of the inspections and monitoring data, FLS concludes the following:

- The ECs and ICs were in place and remained effective at the Site in 2021.
- The ECs and ICs were in place and remained effective at the former SJHS in 2021.
- The operation and maintenance activities were conducted properly.
- The quarterly soil vapor sampling of the SVE system was properly implemented. There has been a significant reduction in concentrations of PCE and TCE since SVE system start-up in 2013.
- The annual groundwater sampling was properly implemented and the PCE concentrations are above the TOGS Standard of 5 µg/L.

Based on the evaluation of the inspections and monitoring data, FLS recommends the following:

- All ECs and ICs both at the Site and off-Site will continue in operation and monitoring in 2022.
- The soil vapor sampling of the SVE system will continue to monitor system performance, breakthrough of carbon, and potential for conversion to SSDS operation only.
- Groundwater monitoring will continue to be conducted on an annual basis. These results will evaluate the natural attenuation occurring in the subsurface.

6.2 Future PRR Submittals

In accordance with the approved SMP, PRRs will be submitted on an annual basis. The next PRR is due no later than February 4, 2023.

Tables

Table 1
388 Bridge Street
Responsible Parties

NYSDEC Site #	Development Work	Responsible Party
BCP Site C224134		
	On-Site Building (New Development Building)	384 Bridge Street, LLC
	Off-Site Buiding (Former Saint Joseph's High School)	384 Bridge Street, LLC

Table 2 - Groundwater Analytical Results
Semi-Annual Groundwater Report
388 Bridge Street, Brooklyn NY

Client Sample ID:			SVE-MW-1									SVE-MW-4									SVE-MW-5								
Lab Sample ID:	Units	NY TOGS Class GA GW Standards	JC17514-1	JC28127-3	JC39116-1	JC51891-1	JC62395-1	JC62395-1	JC87667-1	JD6496-1	JD22545-1	JC17514-2	JC28127-2	JC39116-2	JC51891-2	JC62395-3	JC62395-3	JC87667-2	JD6496-2	JD22545-2	JC17514-3	JC28127-1	JC39116-3	JC51891-3	JC62395-2	JC73688-3	JC87667-3	JD6496-3	JD22545-4
Date Sampled:			3/31/2016	9/20/2016	3/17/2017	9/26/2017	3/14/2018	9/12/2018	5/7/2019	4/24/2020	3/30/2021	3/31/2016	9/20/2016	3/17/2017	9/26/2017	3/14/2018	9/12/2018	5/7/2019	4/24/2020	3/30/2021	3/31/2016	9/20/2016	3/17/2017	9/26/2017	3/14/2018	9/12/2018	5/7/2019	4/24/2020	3/30/2021
Matrix:			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 (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 (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 (0.43)	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 (0.43)
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 (0.48)	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 (0.48)
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 (0.45)	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 (0.45)	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 (0.45)
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 (0.63)	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 (0.63)
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) a	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) a	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) a	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 (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 (6.9)
Carbon disulfide	ug/l	60	ND (0.25)	ND (0.33)	ND (0.33)	ND (0.23)	ND (0.50)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.46)	ND (0.25)	ND (0.33)	ND (0.33)	ND (0.23)	ND (0.50)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.46)	ND (0.25)	ND (0.33)	ND (0.33)	ND (0.23)	ND (0.50)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.46)
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 (0.55)	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 (0.55)
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 (0.56)	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 (0.56)
Chloroethane	ug/l	5	ND (0.34)	ND (0.44)	ND (0.44)	ND (0.59) [a]	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) [a]	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) [a]	ND (0.59)	ND (0.73)	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)	2	0.89 J	1.3	0.93 J	3.6	**10.7**	5.7	**7.1**	1.7	1.9	0.79 J	0.85 J	0.71 J	**9.9**	**9.9**	6.5	3.8	**8.4**	2.3
Chloromethane	ug/l	5	ND (0.41)	ND (0.96)	ND (0.96)	ND (0.53) [a]	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) [a]	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) [a]	ND (0.53)	ND (0.76)	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 (0.78)	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 (0.78)
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 (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 (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 (0.56)	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 (0.56)
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 (0.48)	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 (0.48)
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 (0.53)	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 (0.53)
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 (0.54)	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 (0.54)
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 (0.51)	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 (0.51)
Dichlorodifluoromethane	ug/l	5	ND (0.90)	ND (0.70)	ND (0.70)	ND (1.9) [a]	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) [a]	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) [a]	ND (1.9)	ND (1.4)	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 (0.57)	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 (0.57)
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 (0.60)	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 (0.60)
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 (0.59)	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 (0.59)
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)	0.69 J	0.34 J	ND (0.31)	ND (0.31)	1.4	0.52 J	2.3	1.3	ND (0.51)	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 (0.54)	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 (0.54)
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 (0.51)	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 (0.51)
cis-1,3-Dichloropropene	ug/l	-	ND (0.21)	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 (0.21)	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 (0.21)	ND (0.19)	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.47)	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 (0.43)	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 (0.43)
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 (69)	ND (41)	ND (32)	ND (32)	ND (52)	ND (52)	ND (69)	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 (0.60)	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 (0.60)
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 (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 (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 (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 (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 (0.65)	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 (0.65)
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 (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 (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 (0.60)	ND (0.22)	ND (0.78)	ND (0.78)	ND (1.8)	ND (1.8)	ND (0.60)	ND (0.60)	ND (0.60)	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 (0.51)	ND (0.24)	ND (0.34)	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)	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 (1.9)	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 (1.9)
Methylene chloride	ug/l	5	ND (0.73)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.73)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.73)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Styrene	ug/l	5	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.49)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.49)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.49)
1,1,2,2-Tetrachloroethane	ug/l	5	ND (0.21)	ND (0.39)	ND (0.39)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.21)	ND (0.39)	ND (0.39)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.21)	ND (0.39)	ND (0.39)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)
Tetrachloroethene	ug/l	5	**11.9**	**11.8**	**9.7**	2.4	**7.4**	**7.3**	**7.3**	**5.3**	**5.5**	**12.5**	**11.9**	**11.6**	**34.6**	**28.7**	**72**	**46.5**	**20.1**	**23.1**	**12.1**	**11.3**	**6.6**	**32**	**21.5**	**39.3**	**36.6**	**12.7**	**13.1**
Toluene	ug/l	5	ND (0.16)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.16)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.16)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
1,2,3-Trichlorobenzene	ug/l	5	ND (0.23)	ND (0.20)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.23)	ND (0.20)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.23)	ND (0.20)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) [a]	ND (0.50)	ND (0.50)	ND (0.50)
1,2,4-Trichlorobenzene	ug/l	5	ND (0.21)	ND (0.25)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.21)	ND (0.25)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.21)	ND (0.25)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) [a]	ND (0.50)	ND (0.50)	ND (0.50)
1,1,1-Trichloroethane	ug/l	5	ND (0.25)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.25)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.25)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
1,1,2-Trichloroethane	ug/l	1	ND (0.21)	ND (0.28)	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.21)	ND (0.28)	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.21)	ND (0.28)	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Trichloroethene	ug/l	5	0.49 J	0.40 J	0.46 J	ND (0.27)	0.28 J	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	**7.8**	**8.8**	**7.2**	2	1.9	4.7	3.2	1.4	2.1	3.3	2.6	1.4	2.9	1.7	3.0	2.2	0.85 J	0.85 J
Trichlorofluoromethane	ug/l	5	ND (0.43)	ND (0.58)	ND (0.58)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.40)	ND (0.43)	ND (0.58)	ND (0.58)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.40)	ND (0.43)	ND (0.58)	ND (0.58)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.40)
Vinyl chloride	ug/l	2	ND (0.15)	ND (0.33)	ND (0.33)	ND (0.62) [a]	ND (0.62)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.15)	ND (0.33)	ND (0.33)	ND (0.62) [a]	ND (0.62)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.15)	ND (0.33)	ND (0.33)	ND (0.62) [a]	ND (0.62)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
m,p-Xylene	ug/l	-	ND (0.38)	ND (0.42)	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.38)	ND (0.42)	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.38)	ND (0.42)	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)
o-Xylene	ug/l	5	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)
Xylene (total)	ug/l	5	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)
General Chemistry																													
Dissolved Organic Carbon*	mg/l	-	-	<1.0	-	1.5	1.2	4.8	<1.0		1.1	-	<1.0	-	1.4	1.4	1.1	<1.0		1.1	-	<1.0	-	1.4	<1.0	1.2	1.1		1.3
Iron, Ferrous	mg/l	-	-	<0.20	<0.20 [a]		<0.20	<0.20 b	<0.20 [a]	<0.20 [b]	<0.20 a	-	<0.20	<0.20 [a]		<0.20	<0.20 b	<0.20 [a]	<0.20 b	<0.20 a	-	<0.20	<0.20 [a]		<0.20	<0.20 [b]	<0.20 a	<0.20 [b]	<0.20 a
Nitrogen, Nitrate	mg/l	10	-	**12.2**	**10.3** [b]	**15.8** [b]	**10.6**	9.2 c	7.8 [b]		7.2 b	-	6.7	8.1 [b]	10 [b]	4.9	9.2 c	**10.8** [b]		6.9 b	-	9.4	**23.2** [b]	6.3 [b]	5.7	**10.6** [c]	**13.0 b**		6.6 b
Nitrogen, Nitrate + Nitrite	mg/l	10	-	**12.2**	**10.3**	**15.8**	**10.6**	9.2	7.8		7.2	-	6.7	8.1	10	4.9	9.2	**10.8**		6.9	-	9.4	**23.2**	6.3	5.7	**10.6**	**13**		6.6
Nitrogen, Nitrite	mg/l	1	-	<0.010	<0.010	ND (0.010)	<0.010	<0.010	<0.010	0.014	<0.010	-	<0.010	<0.010	0.017	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	ND (0.010)	<0.010	<0.010	<0.010	<0.010	<0.010
Sulfate	mg/l	250	-	95.7	88.3	62.7	114	98.2	115	46.3	82.7	-	94.4	96.6	74.7	40.9	78.4	94.7	151	81.8	-	75	108	39.5	40.8	102	72.7	123	81.2
Total Organic Carbon	mg/l	-	-	<1.0	1.2		1.2	1.4	<1.0		1.1	-	1	1		1.6	1.2	<1.0		1.1	-	<1.0	1.3		<1.0	1.2	<1.0		1.2

Notes:

ND - not detected

J - estimated concentration

[a] Associated CCV outside of control limits high, sample was ND

[b] Field analysis required. Received out of hold time and analyzed by request.

[c] Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

* Groundwater filtered

Exceedances of a standard are highlighted in yellow and bolded

Detection of a compound is highlighted in blue

Table 3 - SVE Sampling Results June 2013 - December 2021
388 Bridge Street Brooklyn, New York

Compound/ Date	System installation date	Sampling Frequency	PCE Tetrachloroethylene			TCE Trichloroethylene		
		Sample ID	SVE-INLET	SVE-MIDSTREAM	SVE-OUTLET	SVE-INLET	SVE-MIDSTREAM	SVE- OUTLET
		NYSDOH Guidance [1]	30	30	30	2	2	2
6/28/2013	2013	Monthly	29400	1650	124	51	4.3	0.42
7/3/2013	2013	Monthly	39700	1690	22	120	5.9	1.5
7/10/2013	2013	Monthly	29800	80.7	73.9	73.1	0.42	0.42
7/17/2013	2013	Monthly	8750	486	40	37	4.8	0.42
7/24/2013**	2013	Non-routine	12	433	45	0.42	2.2	0.42
7/31/2013	2013	Monthly	6850	163	31	19	0.42	0.42
8/7/2013	2013	Monthly	4710	264	39	17	1.3	0.42
8/14/2013	2013	Monthly	6750	475	39	30	1.7	0.42
8/28/2013	2013	Monthly	5580	364	26	22	1.3	0.42
9/11/2013	2013	Monthly	4650	321	NS	16	1.2	NS
9/25/2013	2013	Monthly	5440	291	NS	21	1.1	NS
10/9/2013	2013	Monthly	3040	232	30	14	0.42	0.42
10/23/2013	2013	Monthly	4950	356	NS	18	1.2	NS
11/6/2013	2013	Monthly	4400	311	NS	17	1.1	NS
11/20/2013	2013	Monthly	5280	174	70.5	17	0.64	0.22
12/4/2013	2013	Monthly	4140	334	45	14	0.97	0.1
12/18/2013	2013	Monthly	5160	516	78.7	20	2.4	0.39
1/2/2014	2013	Monthly	2840	248	18	10	1.6	0.32
1/15/2014	2013	Monthly	7050	1470	62	20	5.3	0.42
1/29/2014	2013	Monthly	8540	263	NS	19	2.2	NS
2/12/2014	2013	Monthly	8000	664	31	23	4.5	0.42
2/27/2014	2013	Monthly	9900	14	83.4	26	1.9	0.81
3/12/2014	2013	Monthly	4240	1170	140	11	6.4	0.81
3/26/2014	2013	Monthly	1630	156	50	7	0.51	0.81
4/23/2014	2013	Monthly	3230	317	48	11	1.4	1
5/20/2014	2013	Monthly	2530	269	39	7	0.91	0.1
6/18/2014	2013	Monthly	1510	41	27	6.4	0.48	0.7
7/23/2014	2013	Monthly	5230	466	22	17	3.6	0.35
8/27/2014	2013	Monthly	3860	579	35	13	4	0.44
9/24/2014	2013	Monthly	2960	529	26	28	7.5	0.75

Table 3 - SVE Sampling Results June 2013 - December 2021
388 Bridge Street Brooklyn, New York

Compound/ Date	System installation date	Sampling Frequency	PCE Tetrachloroethylene			TCE Trichloroethylene		
		Sample ID	SVE-INLET	SVE-MIDSTREAM	SVE-OUTLET	SVE-INLET	SVE-MIDSTREAM	SVE- OUTLET
		NYSDOH Guidance [1]	30	30	30	2	2	2
10/15/2014	2013	Non-routine	1380	NS	NS	7	NS	NS
10/16/2014	2013	Non-routine	2430	NS	NS	9.1	NS	NS
10/17/2014	2013	Non-routine	14400	NS	NS	28	NS	NS
10/20/2014	2013	Non-routine	1020	NS	NS	4.8	NS	NS
10/21/2014	2013	Non-routine	1250	NS	NS	4.4	NS	NS
10/22/2014	2013	Non-routine	324	NS	NS	1.6	NS	NS
10/29/2014	2013	Monthly	3040	385	18	10	6.4	0.75
11/26/2014	2013	Monthly	3560	524	22	17	9.7	1.1
12/15/2014	2013	Non-routine	315	NS	NS	0.81	NS	NS
12/16/2014	2013	Non-routine	202	NS	NS	1.4	NS	NS
12/17/2014	2013	Non-routine	7730	NS	NS	13	NS	NS
12/18/2014	2013	Non-routine	207	NS	NS	1.6	NS	NS
12/19/2014	2013	Non-routine	142	NS	NS	0.59	NS	NS
12/22/2014	2013	Non-routine	65	NS	NS	0.4	NS	NS
12/30/2014	2013	Monthly	7660	589	1.3	13	8.1	0.16
1/29/2015	2013	Monthly	5450	990	38	13	8.1	0.91
2/26/2015	2013	Monthly	6760	1170	35	14	9.1	1
3/27/2015	2013	Monthly	3490	1990	58	13	17	1.3
4/29/2015	2013	Monthly	5110	834	60	11	9.1	2
5/27/2015	2013	Monthly	4060	800	54	9.7	11	1.6
6/23/2015	2013	Monthly	4300	530	44	9.7	8.6	1.2
7/30/2015	2013	Monthly	5830	1180	54	12	13	1.4
8/26/2015	2013	Monthly	3490	599	8.8	12	12	1.1
9/23/2015	2013	Monthly	6250	1060	28	16	16	1.1
10/28/2015	2013	Monthly	4130	759	36	20	12	1.1

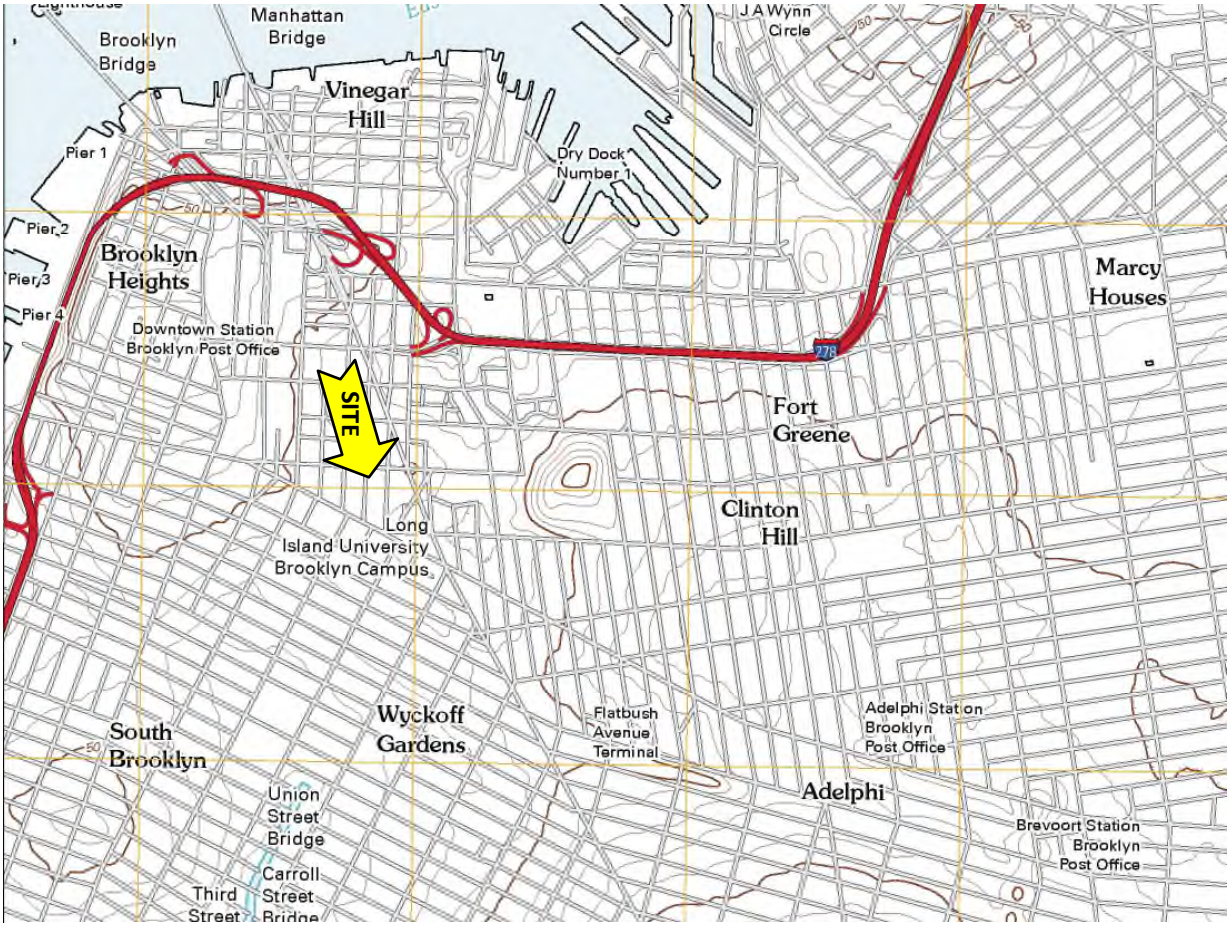
Table 3 - SVE Sampling Results June 2013 - December 2021
388 Bridge Street Brooklyn, New York

Compound/ Date	System installation date	Sampling Frequency	PCE Tetrachloroethylene			TCE Trichloroethylene		
		Sample ID	SVE-INLET	SVE-MIDSTREAM	SVE-OUTLET	SVE-INLET	SVE-MIDSTREAM	SVE- OUTLET
		NYSDOH Guidance [1]	30	30	30	2	2	2
Installation of new system completed in the 1 Q 2016								
*1/26/2016	2013	Non-routine	0.31	0.31	NS	0.2	0.2	NS
3/30/2016	2016	Non-routine	487	16	NS	8.6	10	NS
3/31/2016	2016	Quarterly	NS	NS	8.1	NS	NS	15
8/5/2016	2016	Quarterly	3410	80	0.81	28	0.52	0.2
9/20/2016	2016	Quarterly	10800	399	5.4	31	4.9	2
12/9/2016	2016	Quarterly	275	334	6.8	2.9	6.4	2.6
3/17/2017	2016	Quarterly	773	13	10	7.5	1.3	4.9
6/13/17	2016	Quarterly	99.7	712	189	2.9	13	12
9/26/2017	2016	Quarterly	10600	6580	5780	25	24	40
12/21/17	2016	Quarterly	4.7	33	21	6.4	4.1	5.3
3/14/18	2016	Quarterly	44.1	1.9	1.6	0.65	7.1	3.8
6/26/18	2016	Quarterly	16.8	26.9	0.31	0.8	1.5	ND (0.047)
9/12/18	2016	Quarterly	8.3	20.2	0.58	0.51	1.2	1.2
12/18/18	2016	Quarterly	1	727	5.7	0.91	3.2	1.6
1/11/19	2016	QC	-	4400	-	-	20	-
5/7/19	2016	Quarterly	976	556	450	4.7	3.6	17
6/7/19	2016	Quarterly	3.4	24	62	0.81 J	4.9	2.8
9/5/19	2016	Quarterly	34	442	4.2	1.8	2.7	ND
12/20/19	2016	Quarterly	1.4	3.6	4.3	ND	ND	ND
3/19/20	2016	Quarterly	1.4	5.3	ND	ND	1	ND
6/8/20	2016	Quarterly	2220	5110	632	6.4	9.1	4.3
7/22/20	2016	QC	5	1.5	0.49	1.5	2.9	1.4
9/30/20	2016	Quarterly	1630	286	ND	7.5	3	ND
12/9/20	2016	Quarterly	1700	150	ND	4.8	2.5	ND
3/30/21	2016	Quarterly	2020	773	1.6	5.1	5.9	ND
6/24/21	2016	Quarterly	2030	1650	4.1	5.9	6.4	2
9/23/21	2016	Quarterly	6920	1930	2620	11	9.1	13
10/12/21	2016	QC	1730	125	17	6.4	7	3.8
12/9/21	2016	Quarterly	1610	111	ND	11	1.8	ND

Notes:
All concentrations measured in ug/m3
Exceedences to NYSDOH Guidance values highlighted in yellow
* A new and downsized system was installed in 2016 with prior approval of NYSDEC
** SVE Inlet data from 7/24/13 appears to be invalid based on results. It is suspected to have been a bad summa cannister. Data collected at this event is not to be used in future analyses. Sampling event was marked as Non-Routine

[1] : NYSDOH Guidance for Evaluating Soil Vapor Intrusion. Revised PCE and TCE values as per 2013 & 2014 DOH Guidance/ FactSheet
SVE-INLET: Sample collected at the port prior to the carbon treatment
SVE-MIDSTREAM: Sample collected after 1st carbon treatment but before 2nd carbon treatment
SVE-OUTLET: Sample collected after 2nd carbon treatment
Criteria for Termination of SVE Sytem: If the contaminant concentrations in soil vapor become asymptotic to a lower level over an extended period of time, FLS will conclude the SVE system has reached the limit of its effectiveness and request discontinuing operation. The SVE system will remain in place and operational until permission to discontinue use is granted in writing by the NYSDEC.

Figures



SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2

1000 500 0 METERS 1000 2000

1 0.5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

FEET

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*

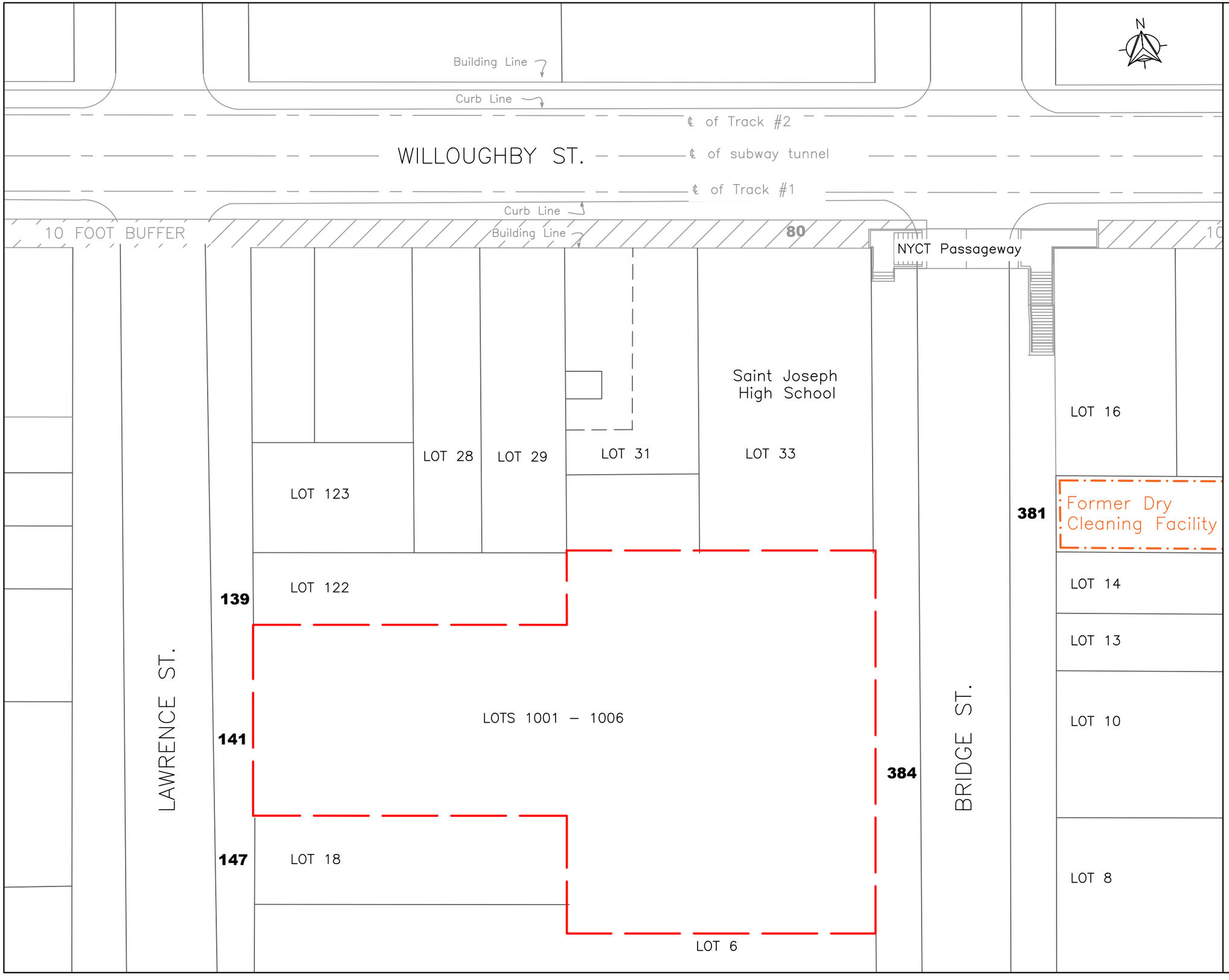
Fleming Lee Shue

Environmental Management & Consulting
158 West 29th Street, New York, NY 10001

Figure 1 – Site Location

January 2019

388 Bridge Street
Brooklyn, New York



FILE: P:\10149 – Stahl Real Estate\001 – 388 Bridge St\Figures\PRR\2016\Figure 2 – Site Plan.dwg DATE: 1/18/2017

Fleming Lee Shue

Environmental Management & Consulting

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

384 Bridge Street
Brooklyn, NY
BCP Site #C224134

Figure 2

Site Plan

January 2019

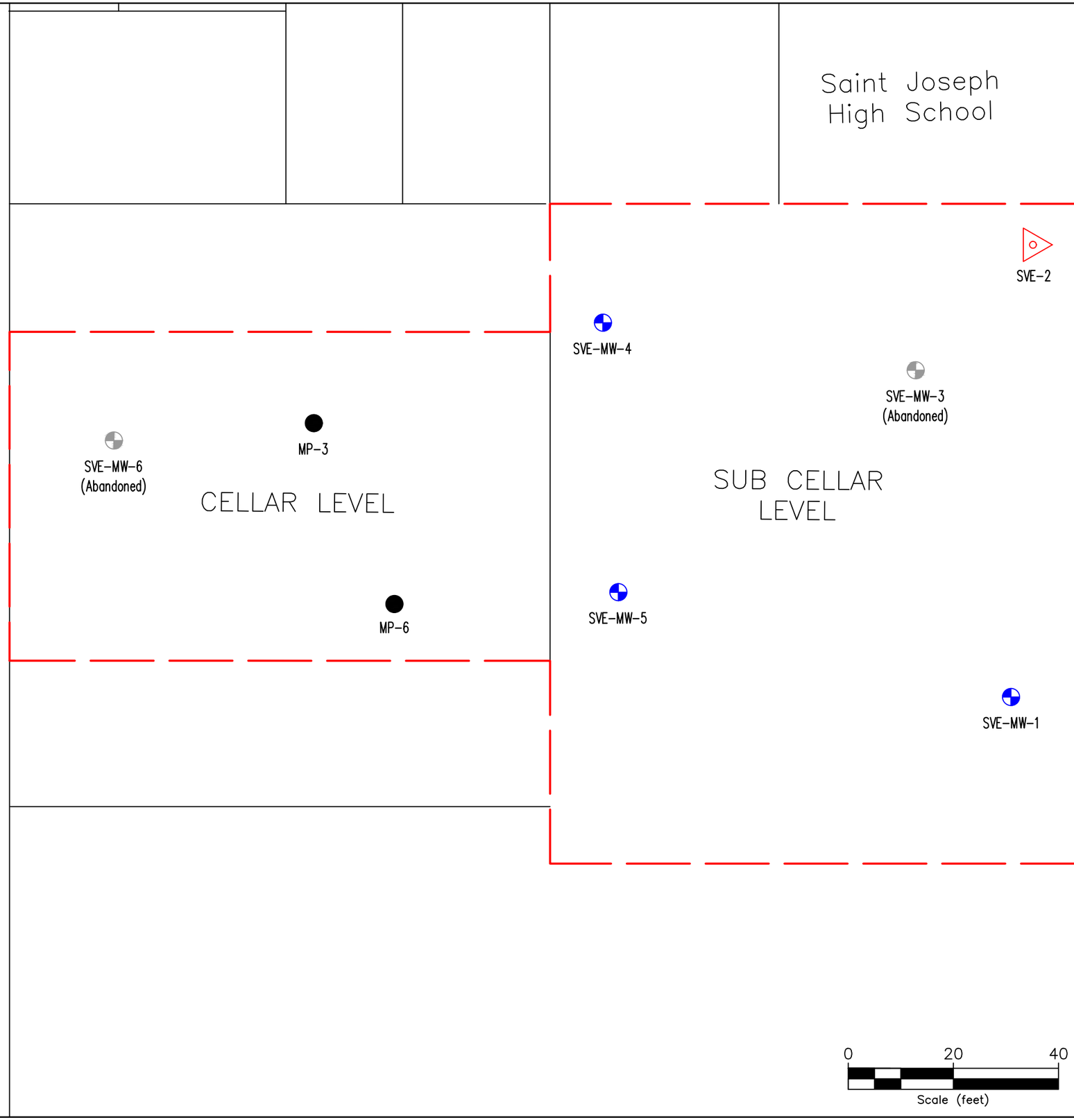
Project Number
10149-001

LEGEND

384 Site Address

Site Boundary/
Development Footprint

0 30 60
Scale (feet)



Fleming Lee Shue

Environmental Management & Consulting

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

388 Bridge Street
Brookly, NY
BCP Site # C224134

Figure 3

SVE and Groundwater Monitoring Well Locations

January 2019

Project Number
10149-001

LEGEND

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

Figure 4. 2013 SVE System
Contaminant Mass Removal - PCE

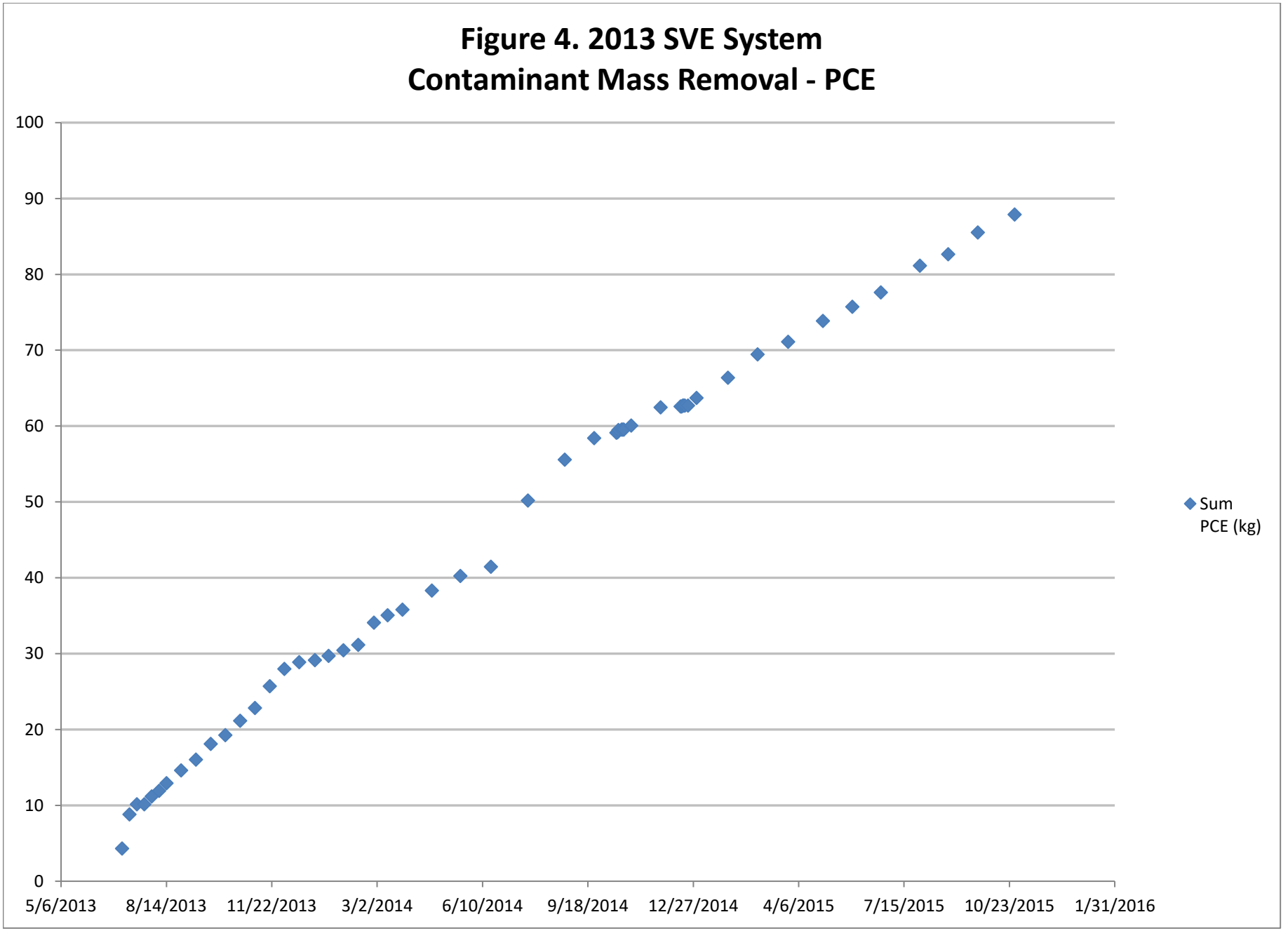


Figure 5. 2013 SVE System
Contaminant Mass Removal - TCE

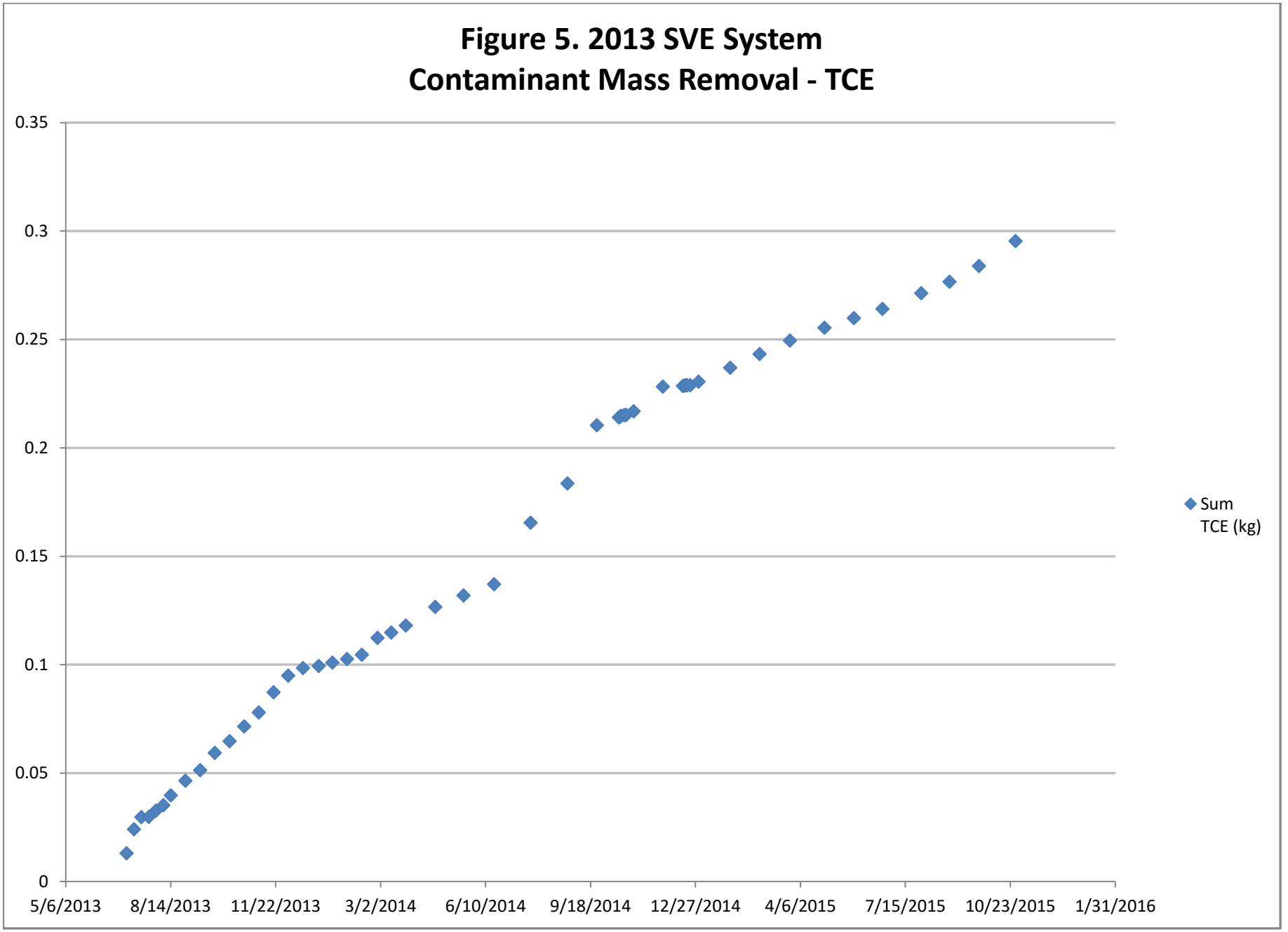


Figure 6. 2016 SVE System
Contaminant Mass Removal - PCE

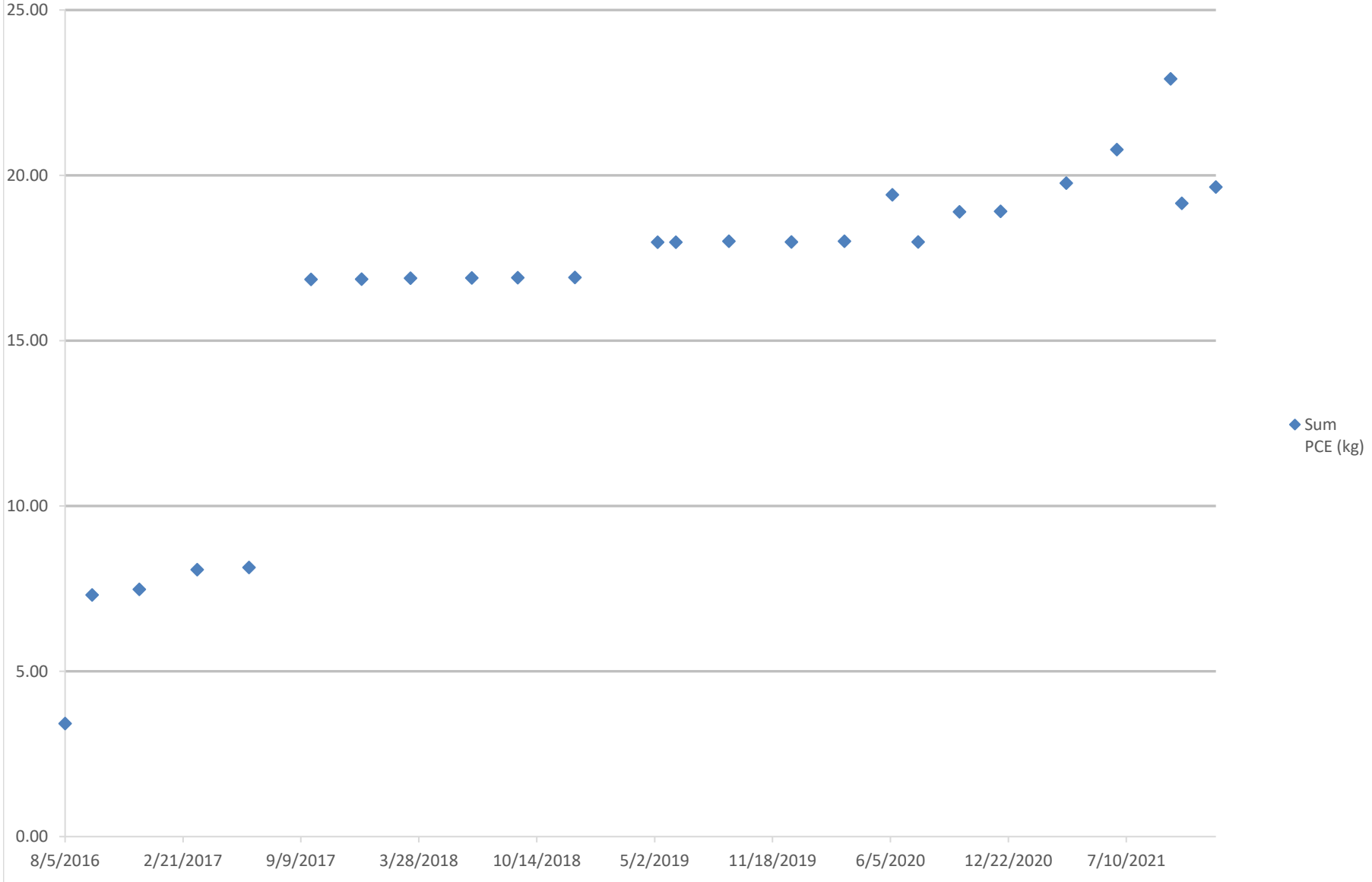
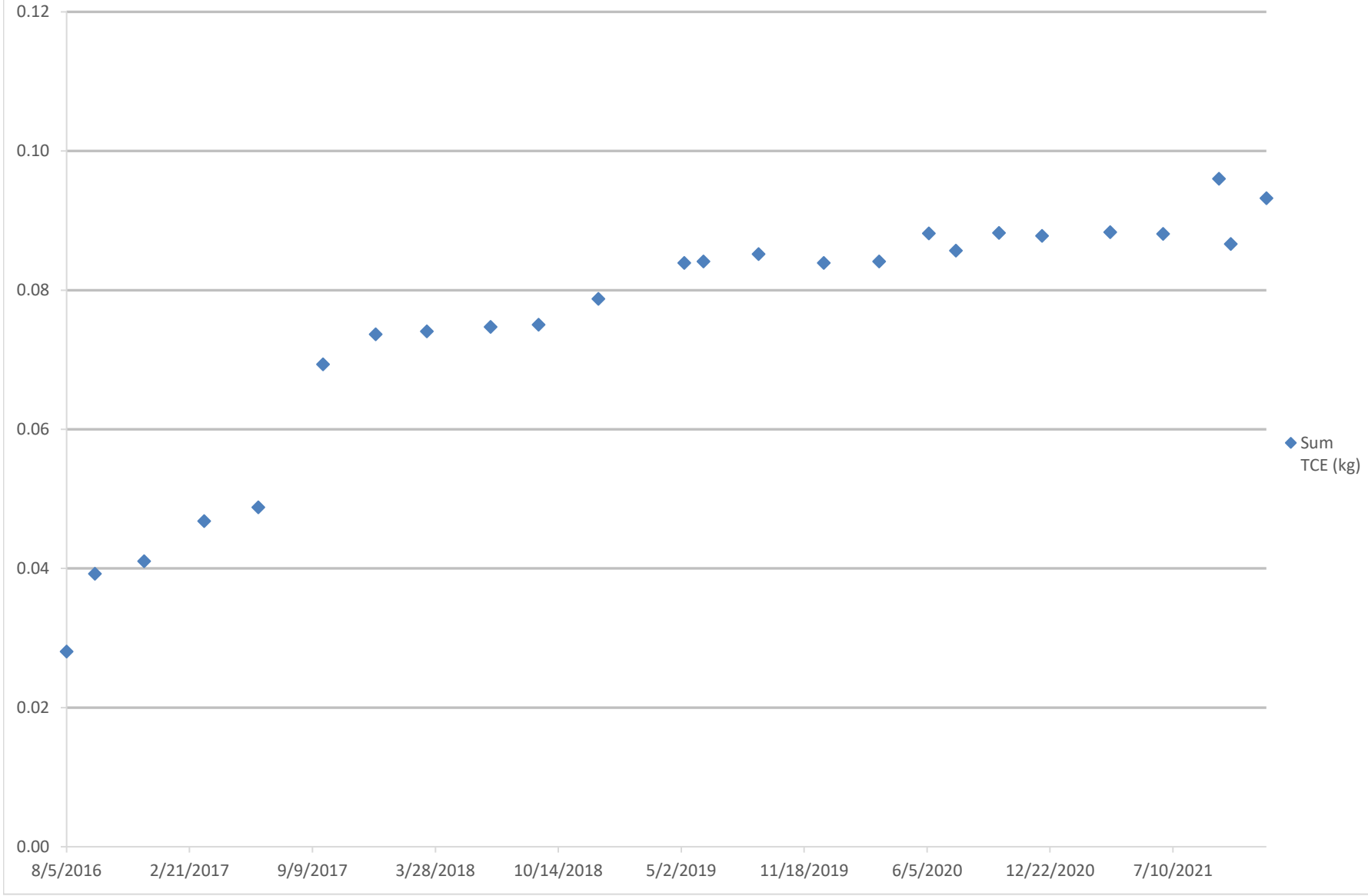


Figure 7. 2016 SVE System
Contaminant Mass Removal - TCE



Appendix A

Metes and Bounds

SCHEDULE "A"
ENVIRONMENTAL EASEMENT
PROPERTY DESCRIPTION

The Condominium (in the Building located at and known as The Bridge Street Condominium and by Street Number 384-394 Bridge Street, New York), designated and described as Units Parking, Commercial 1, Commercial 2, Lower 80/20, Upper 80/20 and Divisible (hereinafter called the "Unit") in the Declaration (hereinafter called "Declaration") made by the Sponsor under the Condominium Act of The State of New York (Article 9-B of the Real Property Law of the State of New York), dated March 21, 2012 and recorded June 14, 2012 in the Office of the Register, the City of New York, County of New York, in CRFN 2012000231607 establishing a plan for Condominium ownership of said Building and the land upon which the same is erected (hereinafter sometimes collectively called the "Property") and also designated and described as Tax Lot Nos. 1001-1006 Block 152, Borough of Brooklyn, on the Tax Map of the Real Property Assessment Department of the City of New York and on the Floor Plans of said Building certified by Professional Engineer, on and filed as Condominium Plan No. 3222 on June 14, 2012 in the aforesaid Register's Office.

Together with an undivided 100 percent interest in the common elements of the property described in the Declaration.

The land upon which the Building containing the Unit is erected as follows:

Legal Description of Environmental Easement Area (former Lots 37 & 118 Block 152 Joined as one)

“Being the same piece or parcel of Land conveyed to R, K, & G Associates from 1929 Realty, Inc., by deed dated June 15, 1977 recorded in Reel 926 Page 725 and also the same parcel of land conveyed to 384 Bridge Street LLC from 141 Lawrence Street LLC, by deed dated December 19, 2011 recorded as CRFN: 2012000020329 in the Office of City Register of the City of New York.”

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at a point on the Westerly side of Bridge Street distant 100 feet southerly from the corner formed by the intersection of the Westerly side of Bridge Street and the Southerly side of Willoughby Street;

RUNNING THENCE Westerly parallel with Willoughby Street 107 feet 6 inches;

THENCE Southerly parallel with Bridge Street 25.0 feet;

THENCE Westerly parallel with Willoughby Street I07 feet 6 inches to the Easterly side of Lawrence Street;

THENCE Southerly along the easterly side of Lawrence Street 62 feet;

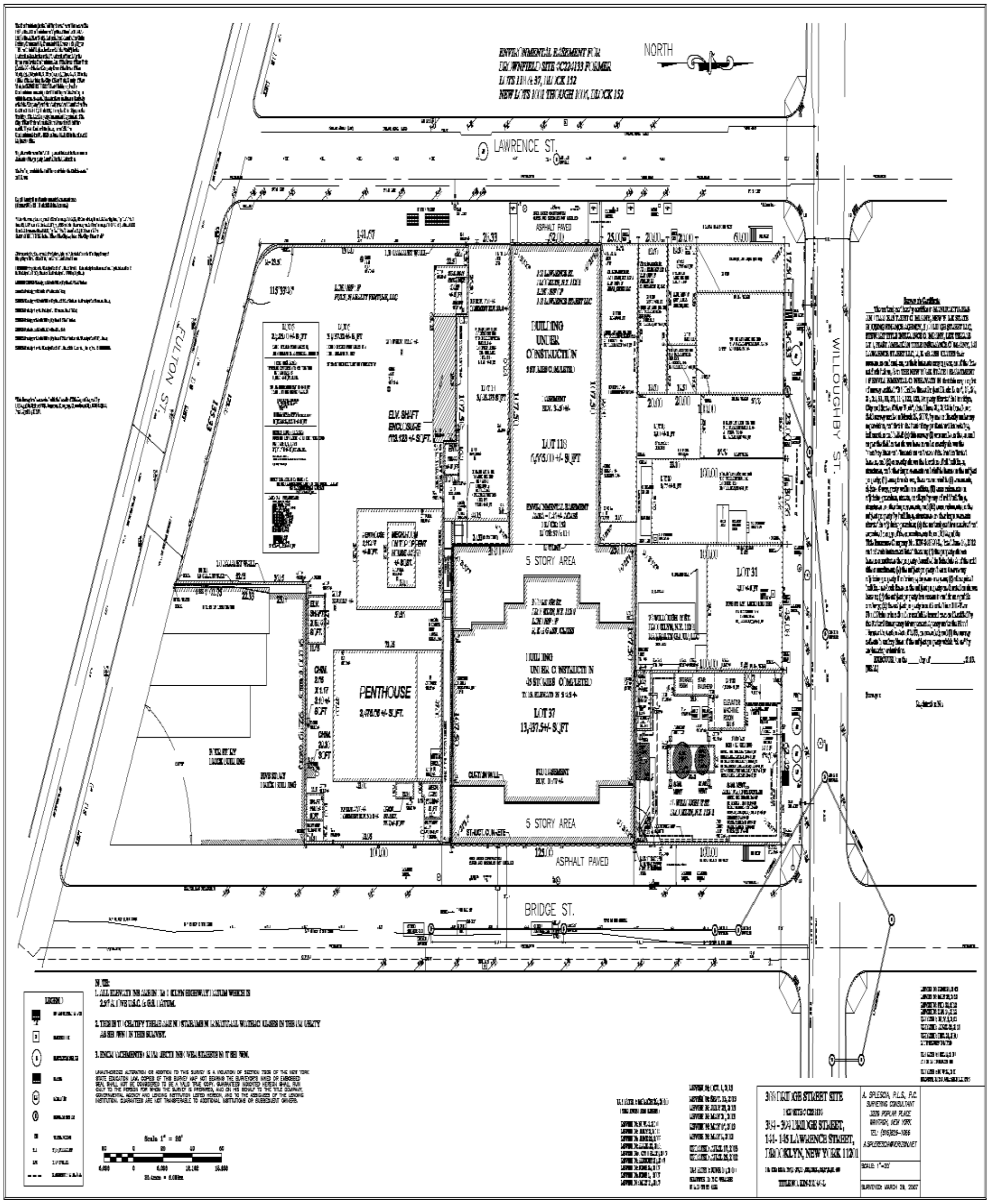
THENCE Easterly parallel with Willoughby Street 107 feet 6 inches;

THENCE Southerly parallel with Bridge Street 38.0 feet;

THENCE Easterly parallel with Willoughby Street 107 feet 6 inches to the Westerly side of Bridge Street;

THENCE Northerly along the Westerly side of Bridge Street 125.0 feet to the point or place of BEGINNING.

SURVEY


NORTH
LAWRENCE ST.
BRIDGE ST.
WILLOUGHBY ST.
FULTON ST.
PENTHOUSE
5 STORY AREA
5 STORY AREA
ASPHALT PAVED
ASPHALT PAVED

Appendix B

Engineering Controls/Institutional Controls Certifications

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. **C224134**

Site Name 388 Bridge Street

Site Address: 384-394 Bridge Street and 141-145 Lawrence Street Zip Code: 11201
City/Town: Brooklyn
County: Kings
Site Acreage: 0.460

Reporting Period: January 03, 2021 to January 03, 2022

	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? Residential, Restricted-Residential, Commercial, and Industrial	☑	☐
7. Are all ICs 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. C224134 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
1-152-1001	384 Bridge Street, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
- land use restriction - groundwater use restriction - soil management plan		
1-152-1002	384 Bridge Street, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
- land use restriction - groundwater use restriction - soil management plan		
1-152-1003	384 Bridge Street, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
- land use restriction - groundwater use restriction - soil management plan		
1-152-1004	384 Bridge Street, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
- land use restriction - groundwater use restriction - soil management plan		
1-152-1005	384 Bridge Street, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
- land use restriction - groundwater use restriction		

- soil management plan

1-152-1006 384 Bridge Street LLC

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

- land use restriction
- groundwater use restriction
- soil management plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
1-152-1001	Vapor Mitigation Air Sparging/Soil Vapor Extraction

- composite cover system
- sub-slab depressurization system
- soil vapor extraction system
- monitored natural attenuation of groundwater
- adjacent off-site vapor mitigation system

1-152-1002

Vapor Mitigation
Air Sparging/Soil Vapor Extraction

- composite cover system
- sub-slab depressurization system
- soil vapor extraction system
- monitored natural attenuation of groundwater
- adjacent off-site vapor mitigation system

1-152-1003

Vapor Mitigation

- composite cover system
- sub-slab depressurization system
- soil vapor extraction system
- monitored natural attenuation of groundwater
- adjacent off-site vapor mitigation system

1-152-1004

Vapor Mitigation

- composite cover system
- sub-slab depressurization system
- soil vapor extraction system
- monitored natural attenuation of groundwater
- adjacent off-site vapor mitigation system

1-152-1005

Vapor Mitigation

- composite cover system
- sub-slab depressurization system
- soil vapor extraction system
- monitored natural attenuation of groundwater
- adjacent off-site vapor mitigation system

1-152-1006

Vapor Mitigation

- composite cover system
- sub-slab depressurization system
- soil vapor extraction system
- monitored natural attenuation of groundwater
- adjacent off-site vapor mitigation system

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 compete.

YES	NO
☑	☐

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
☑	☐

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. C224134

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 ARNOLD F. FLEMING (print name) at 158 W 25th St. NY NY 10001, (print business address)

am certifying as OWNERS REP (Owner or Remedial Party)

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

Arnold F. Flem Jr — Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

1/31/22 — Date

EC CERTIFICATIONS

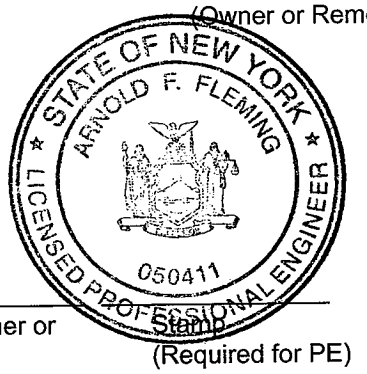
Box 7

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 ARNOLD F. FLEMING at 158 W 25th St. NY NY 10001,
print name print business address

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



Arnold F. Fleming
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

1/31/22
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.

C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.
D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations
A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
1. whether all requirements of each plan were met during the reporting period
2. any requirements not met
3. proposed plans and a schedule for coming into full compliance.
B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
C. Future PRR Submittals
1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

Appendix C

Quarterly Inspection Sheets

388 Bridge Street
SVE OMM and Pressure Readings

Date	3/30/2021	**Op. Freq. (Hz)**	50	**Amb. Air Temp. (°F)**	50

Process Area	Indicator ID	Paramenter	Unit	Reading/ Status	Time
System Inlet	SP 100	Pressure (man.)	inwc		
		Air speed	fpm		
		Flow	cfm		
		Temp.	°F		
	VI 101	Pressure	inwc	16	
Post- Moist. Separator / Pre- Blower	VI 102	Pressure	inwc	33	
	F-102	Dilution Valve	---	75% closed	
Pre- Blower / Before Heat Exchanger	PI 101	Pressure	inwc	18	
	TI 101	Temp.	°F	102	
After heat exchanger / Pre-Carbon Treatment	PI 103	Pressure	inwc	6	
	TI 102	Temp.	°F	82	
Between Carbon Units	PI 104	Pressure	inwc	<1	
Post- Carbon Treatment	PI 105	Pressure	inwc	4	

Monitoring Point	Pressure (in. wc.)	Location	Comments
SVE Well #1	---	Sub-cellar garage	Converted to monitoring well
SVE Well #2	-5.100	Sub-cellar garage	
SVE Well #3	---	Sub-cellar garage	Abandoned
SVE Well #4	---	Sub-cellar garage	Converted to monitoring well
SVE Well #5	---	Sub-cellar garage	Converted to monitoring well
SVE Well #6	---	Cellar workshop	Abandoned
SSDS MP #1	---	Not installed	
SSDS MP #2	---	Not installed	
SSDS MP #3	-0.246	Cellar hallway	
SSDS MP #4	---	Not installed	
SSDS MP #5	---	Not installed	
SSDS MP #6	-0.035	Cellar garage	

Monitoring Point	Pressure (in. wc.)	Port Location	Comments
R1	---	Behind Boiler Room	inacessible
R2	---	Boiler Room	inacessible
R3	-0.059	Boiler Room	
R4	-0.133	Boiler Room	
R5	-0.032	Workshop	
R6	---	Back Storage Room	inacessible
R7	0.000	Storage Room hallway	blocked with debris
R8	-0.193	Storage Room entrance	inacessible
R9	---	Woodshop classrom	inacessible
R10	---	East Storage room	inacessible
R11	-0.264	East Storage room	
R12	-0.163	Stairwell	
R13	-1.065	Kitchen storage	

Sample ID	Flow Controller No.	Canister No.	Initial Time	Final Time	Initial Vacuum	Final Vacuum
SVE INLET	MC269	A596	10:20	11:25	30.0	4.0
SVE MIDSTREAM	FC566	A610	10:25	12:20	28.5	4.0
SVE OUTLET	FC583	A800	10:30	12:07	20.0	4.0

Notes

388 Bridge Street
SVE OMM and Pressure Readings

Date 6/24/2021 **Op. Freq. (Hz)** 50 **Amb. Air Temp. (°F)** 70

Process Area	Indicator ID	Paramenter	Unit	Reading/ Status	Time
System Inlet	SP 100	Pressure (man.)	inwc		
		Air speed	fpm		
		Flow	cfm		
		Temp.	°F		
	VI 101	Pressure	inwc	32	
Post- Moist. Separator / Pre- Blower	VI 102	Pressure	inwc	14.4	
	F-102	Dilution Valve	---	75% closed	
Pre- Blower / Before Heat Exchanger	PI 101	Pressure	inwc	18	
	TI 101	Temp.	°F	117	
After heat exchanger / Pre-Carbon Treatment	PI 103	Pressure	inwc	6	
	TI 102	Temp.	°F	105	
Between Carbon Units	PI 104	Pressure	inwc	3.9	
Post- Carbon Treatment	PI 105	Pressure	inwc	3	

Monitoring Point	Pressure (in. wc.)	Location	Comments
SVE Well #1	---	Sub-cellar garage	Converted to monitoring well
SVE Well #2	-4.830	Sub-cellar garage	
SVE Well #3	---	Sub-cellar garage	Abandoned
SVE Well #4	---	Sub-cellar garage	Converted to monitoring well
SVE Well #5	---	Sub-cellar garage	Converted to monitoring well
SVE Well #6	---	Cellar workshop	Abandoned
SSDS MP #1	---	Not installed	
SSDS MP #2	---	Not installed	
SSDS MP #3	-0.231	Cellar hallway	
SSDS MP #4	---	Not installed	
SSDS MP #5	---	Not installed	
SSDS MP #6	-0.026	Cellar garage	

Monitoring Point	Pressure (in. wc.)	Port Location	Comments
R1	---	Behind Boiler Room	inacessible
R2	---	Boiler Room	inacessible
R3	-0.034	Boiler Room	
R4	-0.016	Boiler Room	
R5	---	Workshop	
R6	---	Back Storage Room	inacessible
R7	-0.006	Storage Room hallway	blocked with debris
R8	-0.018	Storage Room entrance	inacessible
R9	---	Woodshop classrom	inacessible
R10	---	East Storage room	inacessible
R11	-0.033	East Storage room	
R12	-0.016	Stairwell	
R13	-0.063	Kitchen storage	

Sample ID	Flow Controller No.	Canister No.	Initial Time	Final Time	Initial Vacuum	Final Vacuum
SVE INLET	MC237	A502	10:00	10:51	29.0	5.0
SVE MIDSTREAM	FC431	A524	10:05	11:17	28.5	5.0
SVE OUTLET	MC242	A273	10:10	11:40	30.0	5.0

Notes

388 Bridge Street
SVE OMM and Pressure Readings

Date	9/23/2021	**Op. Freq. (Hz)**	50	**Amb. Air Temp. (°F)**	70

Process Area	Indicator ID	Paramenter	Unit	Reading/ Status	Time
System Inlet	SP 100	Pressure (man.)	inwc		
		Air speed	fpm		
		Flow	cfm		
		Temp.	°F		
	VI 101	Vacuum	inwc	15	
Post- Moist. Separator / Pre- Blower	VI 102	Pressure	inwc	32	
	F-102	Dilution Valve	---	75% closed	
Pre- Blower / Before Heat Exchanger	PI 101	Pressure	inwc	19	
	TI 101	Temp.	°F	120	
After heat exchanger / Pre-Carbon Treatment	PI 103	Pressure	inwc	6	
	TI 102	Temp.	°F	107	
Between Carbon Units	PI 104	Pressure	inwc	3.9	
Post- Carbon Treatment	PI 105	Pressure	inwc	1.2	

Monitoring Point	Pressure (in. wc.)	Location	Comments
SVE Well #1	---	Sub-cellar garage	Converted to monitoring well
SVE Well #2	-4.077	Sub-cellar garage	
SVE Well #3	---	Sub-cellar garage	Abandoned
SVE Well #4	---	Sub-cellar garage	Converted to monitoring well
SVE Well #5	---	Sub-cellar garage	Converted to monitoring well
SVE Well #6	---	Cellar workshop	Abandoned
SSDS MP #1	---	Not installed	
SSDS MP #2	---	Not installed	
SSDS MP #3	-0.004	Cellar hallway	
SSDS MP #4	---	Not installed	
SSDS MP #5	---	Not installed	
SSDS MP #6	-0.040	Cellar garage	

Monitoring Point	Pressure (in. wc.)	Port Location	Comments
R1	---	Behind Boiler Room	inacessible
R2	---	Boiler Room	inacessible
R3	-0.153	Boiler Room	
R4	-0.048	Boiler Room	
R5	---	Workshop	
R6	---	Back Storage Room	inacessible
R7	---	Storage Room hallway	blocked with debris
R8	-0.130	Storage Room entrance	
R9	---	Woodshop classrom	inacessible
R10	---	East Storage room	inacessible
R11	---	East Storage room	inacessible
R12	-0.087	Stairwell	
R13	-0.832	Kitchen storage	

Sample ID	Flow Controller No.	Canister No.	Initial Time	Final Time	Initial Vacuum	Final Vacuum
SVE INLET	FC421	A440	9:20	11:10	30.0	3.0
SVE MIDSTREAM	FC196	A696	9:21	11:06	29.0	3.0
SVE OUTLET	FC730	A493	9:21	11:17	27.0	3.0

Notes

School at 80 Willoughby Street under construction. Many MPs were inaccessible but system is running properly.

388 Bridge Street
SVE OMM and Pressure Readings

Date 12/9/2021 **Op. Freq. (Hz)** 50 **Amb. Air Temp. (°F)** 37

Process Area	Indicator ID	Paramenter	Unit	Reading/ Status	Time
System Inlet	SP 100	Pressure (man.)	inwc		
		Air speed	fpm		
		Flow	cfm		
		Temp.	°F		
	VI 101	Vacuum	inwc	16	
Post- Moist. Separator /	VI 102	Pressure	inwc	34	
Pre- Blower	F-102	Dilution Valve	---	75% closed	
Pre- Blower /	PI 101	Pressure	inwc	18	
Before Heat Exchanger	TI 101	Temp.	°F	94	
After heat exchanger / Pre-	PI 103	Pressure	inwc	5	PID = 2.3 ppm
Carbon Treatment	TI 102	Temp.	°F	76	
Between Carbon Units	PI 104	Pressure	inwc	3.0	PID = 0.0 ppm
Post- Carbon Treatment	PI 105	Pressure	inwc	3.0	PID = 0.0 ppm

Monitoring Point	Pressure (in. wc.)	Location	Comments
SVE Well #1	---	Sub-cellar garage	Converted to monitoring well
SVE Well #2	-3.545	Sub-cellar garage	
SVE Well #3	---	Sub-cellar garage	Abandoned
SVE Well #4	---	Sub-cellar garage	Converted to monitoring well
SVE Well #5	---	Sub-cellar garage	Converted to monitoring well
SVE Well #6	---	Cellar workshop	Abandoned
SSDS MP #1	---	Not installed	
SSDS MP #2	---	Not installed	
SSDS MP #3	-0.686	Cellar hallway	
SSDS MP #4	---	Not installed	
SSDS MP #5	---	Not installed	
SSDS MP #6	-0.051	Cellar garage	

Monitoring Point	Pressure (in. wc.)	Port Location	Comments
R1	---	Behind Boiler Room	inacessible
R2	---	Boiler Room	inacessible
R3	-0.12	Boiler Room	
R4	-0.151	Boiler Room	
R5	---	Workshop	backfilled with debris
R6	-0.007	Back Storage Room	
R7	-0.029	Storage Room hallway	blocked with debris
R8	-0.148	Storage Room entrance	
R9	---	Woodshop classrom	inacessible
R10	---	East Storage room	inacessible
R11	-0.043	East Storage room	
R12	-0.020	Stairwell	
R13	-0.170	Kitchen storage	

Sample ID	Flow Controller No.	Canister No.	Initial Time	Final Time	Initial Vacuum	Final Vacuum
SVE INLET	FC347	A1106	10:25	12:03	29.0	5.0
SVE MIDSTREAM	MC154	A789	10:30	12:06	26.5	4.0
SVE OUTLET	FC896	A1230	10:35	12:30	30.0	4.5

Notes

School at 80 Willoughby Street under construction. Many MPs were inaccessible but system is running properly.

Appendix D

Site Photographs

Appendix D - Photograph Log
388 Bridge Street

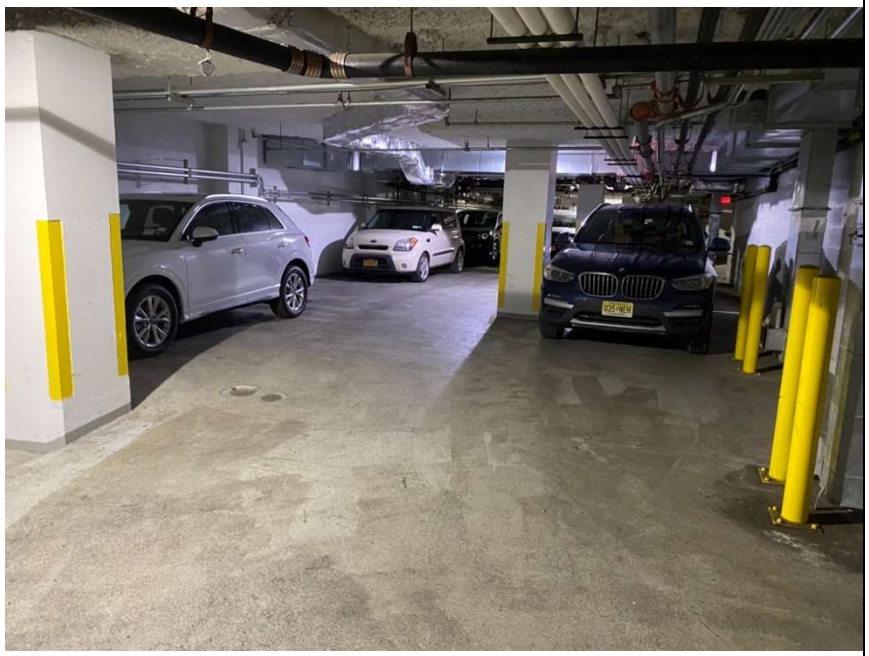


Photo 1: Cellar slab

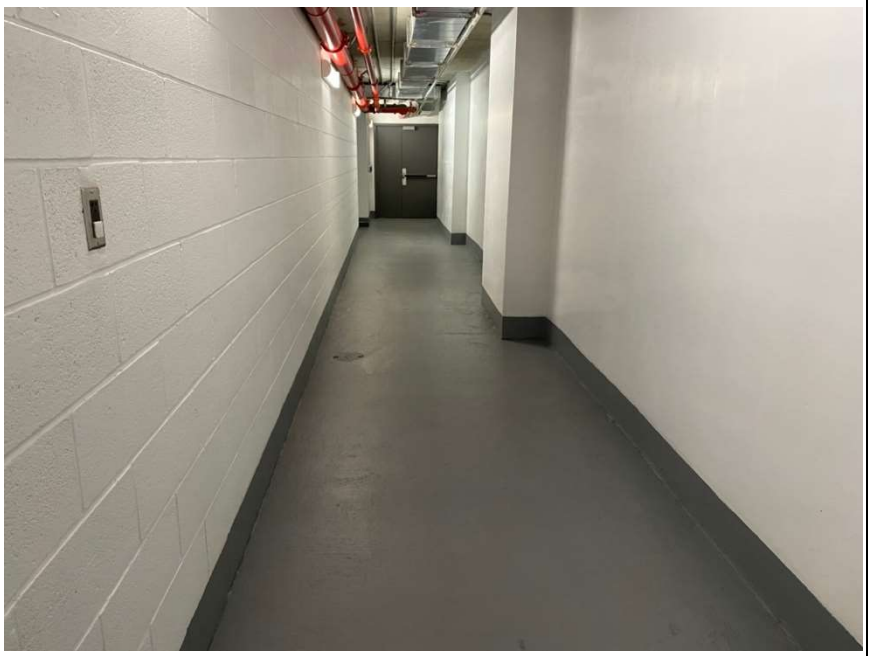


Photo 2: Cellar hallway slab

Fleming Lee Shue

Appendix D - Photograph Log
388 Bridge Street

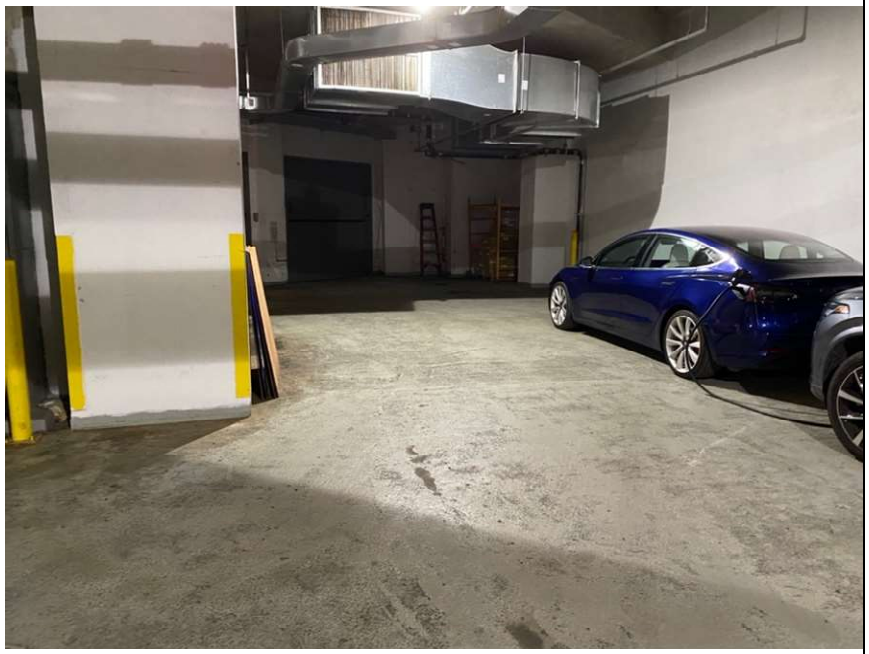


Photo 3: Sub-cellar slab

Photo 4: Sub-cellar slab

Fleming Lee Shue

Appendix D - Photograph Log
388 Bridge Street

Photo 5: SVE manifold

Photo 6: SVE system

Fleming Lee Shue

Appendix D - Photograph Log
388 Bridge Street

Photo 7: Groundwater sampling purge water drum

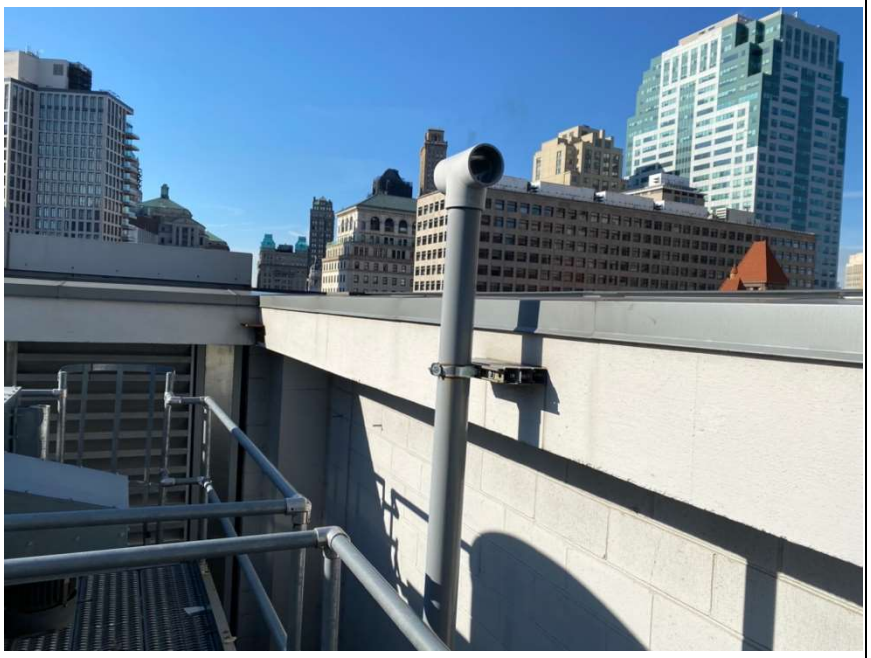


Photo 8: SVE exhaust

Fleming Lee Shue

Appendix D - Photograph Log
388 Bridge Street

Photo 9: SJHS telemetry box

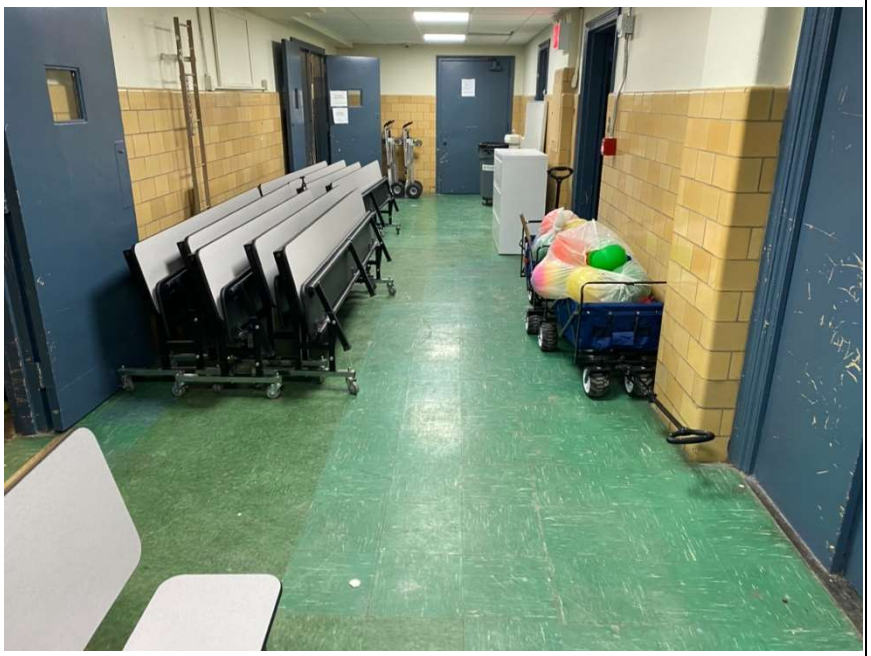


Photo 10: SJHS basement slab in cafeteria area

Fleming Lee Shue

Photo 11: SJHS basement slab boiler room

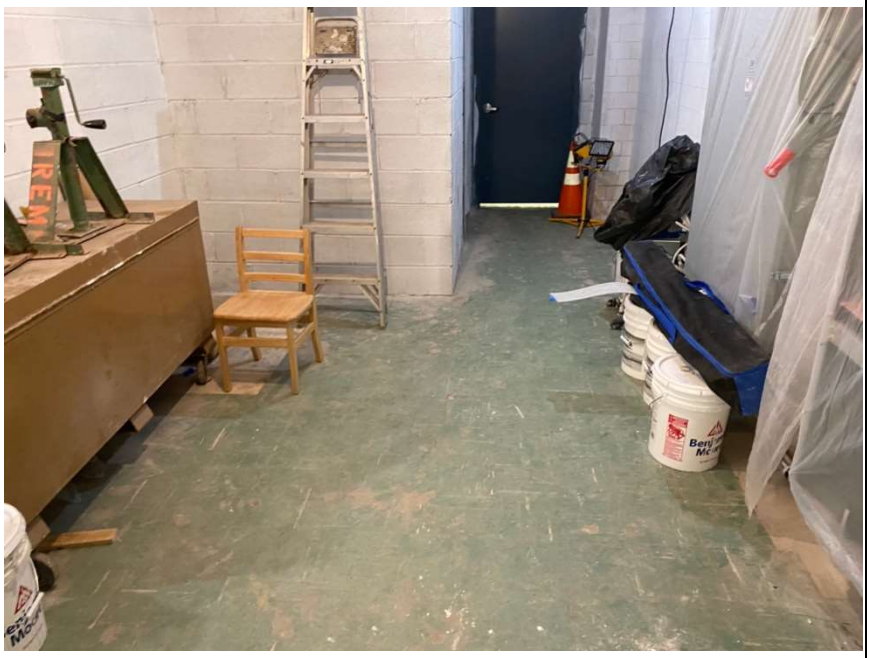


Photo 12: SJHS basement slab in work shop area

Photo 13: SJHS blower and piping

Photo 14: SJHS SSDS piping and exhaust

Appendix E

NYSDEC Approvals

Thu 7/18/2019 1:14 PM

MacCabe, Michael (DEC) <michael.maccabe@dec.ny.gov>

RE: 388 Bridge Street (C224134) Semiannual Groundwater Monitoring Report

To Mark Hutson

Cc Roger Fortune; Jennifer Coghlan; Arnold F. Fleming, P.E.

FollowUp. Start by Thursday, July 18, 2019. Due by Thursday, July 18, 2019.
You forwarded this message on 10/9/2019 10:44 AM.

Mark,

I have reviewed the July 17, 2019 Semi-Annual Groundwater Monitoring Report. Considering the data presented in the report that show relatively low and declining concentrations of site-related chlorinated VOCs in groundwater, the semi-annual groundwater sampling may be reduced to annually.

Thanks

Michael D. MacCabe, P.E.
Senior Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7016
518-402-9687 |michael.maccabe@dec.ny.gov
www.dec.ny.gov

Appendix F

Waste Disposal Manifests

3 #2280

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYD981079932	1	6316088810	020560189 JJK

5. Generator's Name and Mailing Address
384 Bridge St, LLC
388 Bridge St.
Brooklyn NY 11021
Generator's Phone: 718-613-2988

Alt: 613-2988 Generator's Site Address (if different than mailing address)
388 Bridge St.
Brooklyn NY 11021

6. Transporter 1 Company Name
Brookside Environmental, Inc.
U.S. EPA ID Number: NYR000081661

7. Transporter 2 Company Name
Veolia ES Technical Solutions, LLC
U.S. EPA ID Number: NYD080631369

8. Designated Facility Name and Site Address
Veolia ES Technical Solutions, LLC
1 Eden Lane
Flanders NJ 07836
Facility's Phone: 973 347-1909
U.S. EPA ID Number: NJD980536593

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII(tetrachloroethylene) (Foul) BG	X3	DM	600	P	~~NONE~~ BG	B	FD01
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1)1) spent vapor phase carbon WP# 210788 ERG 171
3 x 55 GAL DM
10 DAY received 10/15/21

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ben Hess — Signature — Month 10 Day 12 Year 21

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michael Libizzi — Signature — Month 10 Day 12 Year 21
Transporter 2 Printed/Typed Name: Jose Portillo — Signature — Month 10 Day 14 Year 21

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Nicole Cantor — Signature — Month 10 Day 18 Year 21

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM