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Periodic Review Report

(May 2020-May 2021) 11-28 31st Drive, Queens, NY NYSDEC Site # C241159

Prepared For: GBT Real Estate, LLC 1083 Maple Lane New Hyde Park, NY 11040

Prepared By:

Hydro Tech Environmental Engineering and Geology, DPC
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May 20, 2021

CERTIFICATIONS

I, Tarek Z Khouri, certify that I am currently a NYS registered Professional Engineer and that this Periodic Review Report for the 11-28 31st Drive Site (Site Number: C241159) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Tarek Z. Khouri, P.E.	T NEW
Name	STE OF NEW LOND & CLASSIC STATES TO SERVICE
Signature	086611 UN POFESSIONAL
May 20, 2021	
Date	

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1.0 EXECUTIVE SUMMARY

1.1. Summary of Site Condition and Remedial History

The project site is located at 11-28 31st Drive, in the Long Island City section of Queens County, New York and is identified as Block 502 and Lot 22 on the Queens Tax Map. The site is an approximately 0.055-acre area (2,400 square feet). The site is zoned R7A (residential) and is currently developed with a 6-story condominium building with slab on grade of approximately 1,550 square feet. An 850 square foot open rear yard exists in the southwestern portion of the site. The building has been vacant since the new development was finished in September 2019 and a total of 9 condominium units continue to be listed in the real estate market for sale.

The Site is enrolled in the New York State (NYS) Brownfield Cleanup Program (BCP) and referred as site No. C241159, which is administered by New York State Department of Environmental Conservation (NYSDEC). GBT Real Estate LLC entered into a Brownfield Cleanup Agreement (BCA) in June 2014 (amended March 2017) with the NYSDEC to remediate the site.

Based upon the results of remedial investigation completed by HydroTech during 2013 and 2015, the types of contamination at the site that were identified to require remediation included:

- Volatile organic compounds (VOCs) particularly trichloroethylene, or TCE, and tetrachloroethylene, or PCE in soil, groundwater, and soil vapors
- Heavy metals in soil including copper, lead, zinc, mercury, chromium trivalent, and chromium hexavalent.

Remedial actions performed at the site in accordance with the Decision Document dated September 2016 include:

- Removal of a 550-gallon underground gasoline storage tank (UST) (completed);
- Excavation and off-site disposal of contaminated soils/fill exceeding Track 2 restricted residential SCOs (completed);
- Treatment of groundwater contamination via in-situ chemical oxidant (ISCO) injections (completed);
- Installation of an active sub-slab depressurization (SSD) system as an engineering control to mitigate the migration of vapors into the building from groundwater (completed);
- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site (completed);
- Implementation of a long-term groundwater monitoring plan (on-going).
- Implementation of Operation and Maintenance plan for the inspection and monitoring of SSD system (on-going).
- Periodic certification of the institutional and engineering controls (on-going).

In accordance with the Certificate of Completion (COC) issued for this Site on December 20, 2018, the NYSDEC-approved SMP dated November 2018 continued to be implemented at the Site along with subsequent requirements by the NYSDEC and the New York State Department of Health (NYSDOH) pertaining to the operation and monitoring of the SSD system. The purpose of the SMP is to manage and monitor the remaining contamination at the Site quarterly until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. The monitoring and sampling of the five groundwater monitoring wells and the vacuum monitoring and inspections of active SSD system were conducted quarterly following the December 2019 event, which was documented in the previous Periodic Review Report dated May 30, 2020. Two quarterly monitoring and sampling events are covered in this report and were

conducted during July 2020 and November-December 2020. The schedule of these quarterly events was altered due to delayed deliveries of sampling and monitoring equipment and other materials due to impacts associated with Covid-19. The third and fourth quarterly monitoring and sampling event of groundwater were waived following a petition filed with the NYSDEC in this regard during March 2021. NYSDSEC approved this petition and requested another round of groundwater monitoring and sampling during November 2021. Similarly, the schedule of the quarterly inspection and monitoring of the active SSD system was modified per NYSDEC approval to be pursued monthly by building staff and these monthly inspections shall be included in the annual PRR, along with the annual engineering/maintenance inspection. The first monthly inspection was performed by HydroTech during April 2021 for the training of building staff. NYSDEC also requested to update the modifications in the monitoring and sampling schedule in a revised SMP. **Appendix 1** provides NYSDEC correspondences.

1.2 Effectiveness of the Remedial Program

Progress made during the reporting period toward meeting the remedial objectives for the Site include continued monitoring of groundwater quality and the implementation and management of the institutional and engineering controls in accordance with the SMP. Monitoring data from the work completed to date shows that the remedial program is currently meeting the remedial objectives for the Site.

1.3 Compliance

No areas were identified as being currently out of compliance with the SMP requirements. As such, no steps are currently deemed necessary to correct areas of non-compliance.

2.0 Site Overview

The PRR is prepared for 11-28 31st Drive site located in the Long Island City section of Queens County, New York. This site is approximately 0.055-acre area or 2,400 square feet and is bounded by 31st Drive to the north- northeast, vacant land and a 1-story manufacturing building to the south-southwest, a 1-story cabinet manufacturing facility to the east-southeast and a vacant 1-story warehouse to the west- northwest. It is zoned R7A (residential) and is currently developed with a 6-story building with a total of 9 condominiums with a slab on-grade. The footprint of this building is approximately 1,550 square feet. An 850 square foot landscaped rear yard exists in the southwestern portion of the site. The building has been vacant since the new development was finished in September 2019 and a total of 9 condominium units continue to be listed in the real estate market for sale.

Site environmental history was previously characterized following Site enrollment into the NYSDEC BCP as site No. C241159. As part of this Site characterization, a total of six (6) permanent groundwater monitoring wells were installed including four on-site wells designated MW-1 to MW-4 and two off-site wells designated (MW-5 to MW-6, with MW-5 was then presumed destroyed. Contaminants of concern identified at the Site included Volatile organic compounds (VOCs) particularly trichloroethylene, or TCE, and tetrachloroethylene, or PCE in soil, groundwater and soil vapors and the metals in soil including copper, lead, zinc, mercury, chromium trivalent, and chromium hexavalent. **Figure 1** provides the location of monitoring wells.

During site remedial construction, several remedial actions were undertaken in compliance with the NYSDEC Decision Document dated September 2016 and were completed prior to the issuance of the Certificate of Completion (COC) with the exception of SSD system. The SSD system installation was completed post-COC during September 2019 in conjunction with the finishing of the new building construction at the Site. The SSD system included five (5) sub-slab vacuum monitoring points that were

installed through the building mat slab in accordance with NYSDEC requirements. Three (3) of these vacuum monitoring points are designated as VMP-1, VMP-2 and VMP-3 and were installed as permanent points in common areas of the building. The remaining two points were designated as VMP-4 and VMP-5 and were installed as temporary points in a rear ground-level residential unit and were decommissioned soon after system start-up. **Figure 2** provides the location of the vacuum monitoring points.

The remedial actions completed at the Site consisted of the following:

- Demolished and excavated the existing building slab and disposed 145 tons of clean C&D waste;
- Removed the 550-gallon gasoline UST and performed a post-excavation tank assessment;
- Excavated all soil/fill exceeding Track 2 SCOs to a depth of 3 feet below grade throughout the property and a depth of 6.6 feet below grade for the elevator pit and disposed 323.5 tons of nonhazardous contaminated historic fill/native soil;
- Imported of ¾-inch stone for establishing a 6-inch layer of porous layer for the SSD system under slab and a cover in open rear yard;
- Performed SCO injections in the vicinity of the removed UST by introducing a total of 1,900 lbs of persulfate and a total 120 lbs of FeEDTA activator via three injections points.
- Installed an active SSD system, which was completed and started-up along with the completion of building construction;
- Implemented a SMP to ensure proper operation and maintenance of the Engineering Controls; and
- Recording of an Environmental Easement against the site to ensure implementation of the SMP.

3.0 Evaluation of Remedy Performances, Effectiveness, and Protectiveness

The monitoring and sampling plan contemplated in the November 2018 site

Management Plan (SMP) and subsequent SSD system-related correspondences with NYSDEC outlines the following activities:

Monitoring	Enggioner	Monitored	Analytical	Analytical
Program	Frequency	Wiointored	Parameter	Method
Groundwater	Two months after ISCO injections, and every quarter thereafter	Monitoring wells MW-1, MW-2, MW-3, MW-4 and MW-6	PCE and TCE	EPA Method 8260
SSD system	At start-up and quarterly thereafter	Vacuum Monitoring points VMP-1, VMP-2, VMP-3, VMP-4 and VMP-5	Not Applicable	Not Applicable

A copy of the monitoring well locations included in **Figure 1**. A copy of SSD vacuum monitoring point locations is provided in **Figure 2**.

3.1 Groundwater Monitoring Data

A total of two rounds of groundwater sampling events are documented in this PRR. Groundwater samples were obtained on a quarterly basis from the monitoring wells MW-1 to MW-4 via Passive Diffusion Bag (PDB) samplers. Quarterly groundwater sampling events covered in this PRR were performed on July 31, 2020 and December 3, 2020. The July 2020 and December 2020 sampling events represent delayed events from originally scheduled sampling dates in June 2020 and September 2020 due to impacts associated with Covid 19.

During the two quarterly events, no groundwater sample could be collected from MW-6, which is located behind a locked construction fence erected around a vacant property located to the north of the site. A visual inspection of the remaining monitoring wells indicated they were all sound during this reporting period.

Groundwater monitoring data from the site has been submitted to NYSDEC as part of quarterly status reports. **Appendix 2** provides a copy of these quarterly status reports. The results of groundwater monitoring data collected before and after ISCO injections are summarized in **Table 1**.

In addition, the groundwater level measurements from the monitoring wells during this reporting period indicated the groundwater flow direction is toward the southwest, which is generally consistent with the historic site-specific groundwater flow direction. A groundwater flow diagram from the last groundwater monitoring event is provided in **Figure 3**.

Overall findings of the three quarterly groundwater monitoring events indicate PCE continues to be detected in MW-2 and MW-3 and MW-4. PCE concentrations detected in MW-2 showed a steady decrease from 21.90 $\mu g/L$ reported in the previous PRR to a most recent concentration of 1.7 $\mu g/L$, which is below its GQS of 5 $\mu g/L$. PCE concentrations in MW-3 have not exceeded GQS since November 2018. PCE concentration detected in MW-4 most recently in December 2020 marginally exceeded its GQS with a concentration of 7.16 $\mu g/L$.

TCE was only detected in MW-2 during July 2020 at a concentration less than its GQS of $5 \mu g/L$. TCE was not detected in any monitoring wells at the Site during December 2020.

The PCE and TCE data detected during this reporting period are consistent with the historic groundwater sampling performed at the Site and reflects a general reduction in since 2018 as a result of natural degradation.

Data Usability Summary Reports (DUSRs) were prepared for all groundwater data by Alpha GeoScience. These DUSRs indicated all laboratory data for the three sampling events are deemed acceptable. These DUSR were submitted as part of the QSRs included in **Appendix 2**. The groundwater data was also submitted electronically to NYSDEC EQuIS database through the Environmental Information Management System, using the standardized electronic data deliverable (EDD) format.

3.2 Active Sub-Slab Depressurization System Monitoring Data

The inspection and monitoring of the effectiveness and operation of the active SSD system installed at the Site was performed quarterly on July 15, 2020 and November 11, 2020 and monthly on April 16, 2021. The vacuum communication was verified through the three existing sub-slab vacuum monitoring points VMP-1, VMP-2 and VMP-3. Figure 2 provides the location of the vacuum monitoring points.

During each monitoring event, the vacuum at the sub-slab monitoring points was measured utilizing an DP-CalcTM Micromanometer Model 8710. The SSD system components were also visually inspected for proper functioning in accordance with the SSD system Operation and Maintenance Plan in the SMP by recording the SSD system vacuum at the inline Dwyer Magnehelic dial type vacuum gauge, checking the audio/visual system alarm and observing the functioning of the fan. In addition, organic vapors were measured at the effluent of the SSD system utilizing a Photoionization detector (PID).

The SSD system monitoring data from all these events are summarized in **Table 2**. This data was also reported to NYSDEC along the quarterly groundwater monitoring data in the QSRs provided in **Appendix 2**.

The results of the SSD system monitoring for this reporting period indicate the vacuum at the SSD fan was measured at a minimum of -0.74, which is consistent with the previous measurements. The negative pressure readings measured across the building slab at VMP-1 trough VMP-3 recorded a minimum of -0.04 inches H₂O and a maximum of -0.03 inches H₂O. Overall assessment of this data indicates an adequate radius of influence of the SSD system, which continue to be sufficient for mitigating potential soil vapor intrusion beneath the building. In addition, no organic vapors were detected with the PID at the SSD system effluent. No deficiencies such as damaged SSD riser pipes or joints, alterations or cracks in building slab or , construction changes to building structure that would alter the system performance were noted during the inspection of the SSD system. **Appendix 3** provides the Quarterly SSD System Inspection Checklists.

4.0 Institutional Control/Engineering Control Compliance

4.1 Institutional Controls

The following Institutional Controls are included in the SMP for the site:

- The property may be used for: Restricted Residential, Commercial, and Industrial use;
 - All ECs must be operated and maintained as specified in this SMP;
 - All ECs must be inspected at a frequency and in a manner defined in this SMP;
 - The use of groundwater underlying the property is prohibited without necessary
 water quality treatment as determined by the NYSDOH or the New York City
 Department of Health and Mental Hygiene to render it safe for use as drinking
 water or for industrial purposes, and the user must first notify and obtain
 written approval to do so from the Department;
 - Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
 - Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
 - All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
 - Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
 - Operation, maintenance, monitoring, inspection, and reporting of any
 mechanical or physical component of the remedy shall be performed as defined
 in this SMP; and
 - Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.

The site-wide inspection determined that Institutional Controls have been complied with including compliance with the Environmental Easement and the SMP. There are no new conclusions or recommendations for change of Institutional Controls at this time.

4.2 Engineering Controls

The Engineering Control (EC) listed at the site includes the following:

• Active SSD system

The EC present at the site appears to be operating satisfactorily as designed to render the site protective to human health and environment. The SSD system operation is in compliance with the SMP. There are no new conclusions that would trigger any necessary changes or modifications to improve the operation of the EC present at the site.

Based upon the information evaluated in this report, the Institutional and Engineering Controls Certification and Form was filled and certified by Paul I. Matli, a New York State Licensed Professional Geologist (PG). A copy of the EC/IC Certification statement and form is included in **Appendix 4**.

4.0 Operation & Maintenance Compliance Report

The active SSD system is operating and maintained as required and in compliance with the Operation and Maintenance Plan in the SMP. No evidence or current of former deficiencies undermining the operation or functions of the EC were identified during this reporting period.

5.0 Conclusions and Recommendations

5.1 Compliance

The site construction was finished with a 6-strory condominium building that has been vacant. A total of 9 condominiums have been is listed on the real estate market for sale during this reporting period. The installation and start-up of an active SSD system was completed at the end of building construction.

The requirements stipulated in the November 2018 SMP regarding IC/EC's and the monitoring and O&M Plan and subsequent NYSDEC requirements in relation to the SSD system monitoring were met during the reporting period. No disturbance was observed in the land use and all the monitoring wells and the SSD system were maintained in good condition without the need for any repairs or maintenance as confirmed during each quarterly monitoring event.

Minor deficiencies in the ISCO treatment sampling requirements consisting of delayed start of quarterly groundwater monitoring and the lack of access to off-site monitoring well MW-6 were justified and deemed insignificant to impact the evaluation of groundwater quality and conclusions made in this PRR.

5.2 Performance and Effectiveness of Remedy

An evaluation of the components of the SMP during this reporting period indicates that the IC/EC controls were protective of human health and the environment. Quarterly groundwater data indicates PCE has marginally exceeded its GQS in one monitoring well present on-site (MW-3). PCE also exceeded its GQS in upgradient monitoring well located off-site (MW-6).

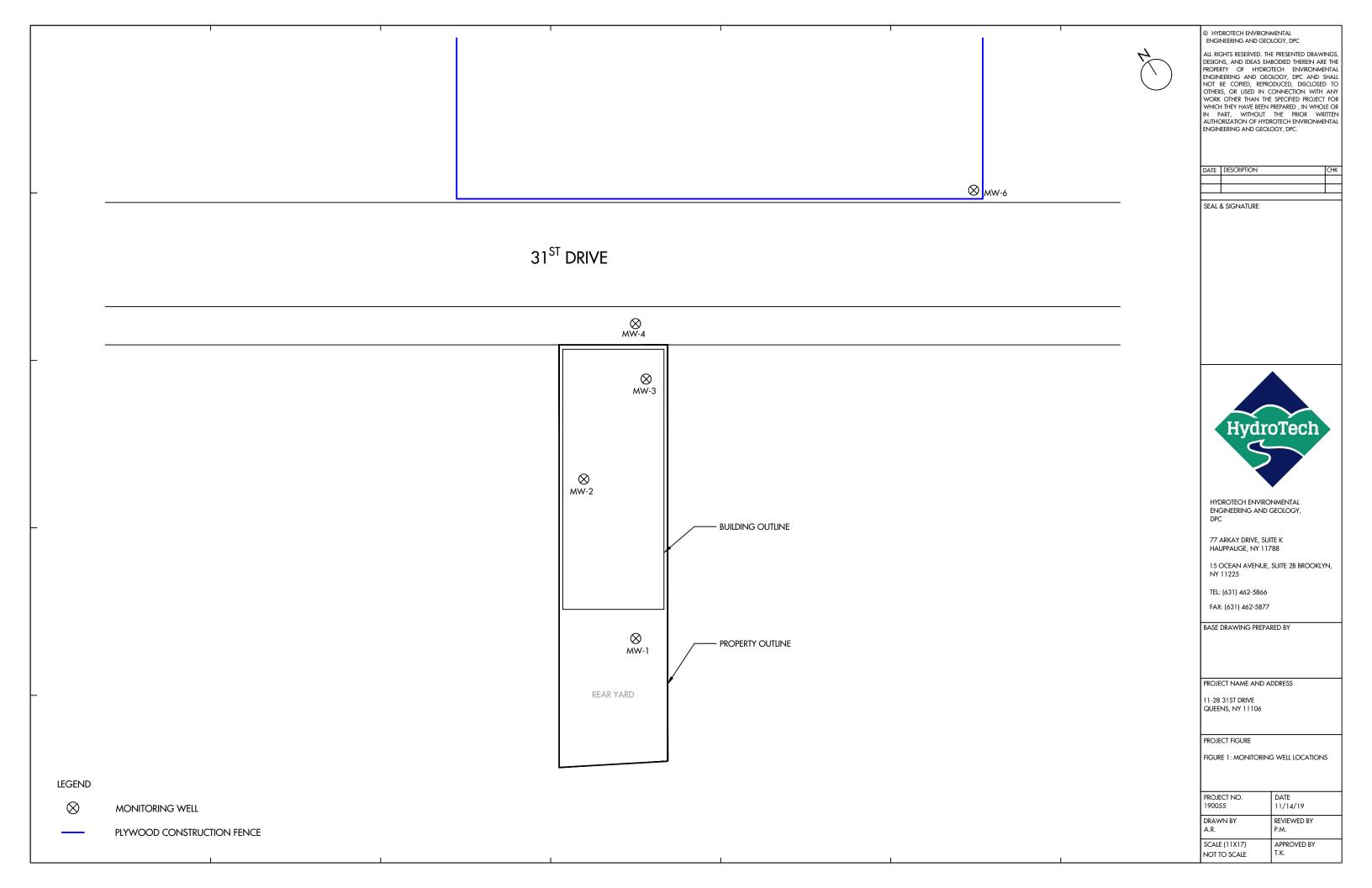
SSD monitoring data indicates the system is operating as designed by mitigating potential soil vapor intrusion beneath the building and rendering the site protective to human health and environment.

5.2 Recommendation

A summary of the recommended ICs/EC inspection, monitoring and sampling activities is provided below:

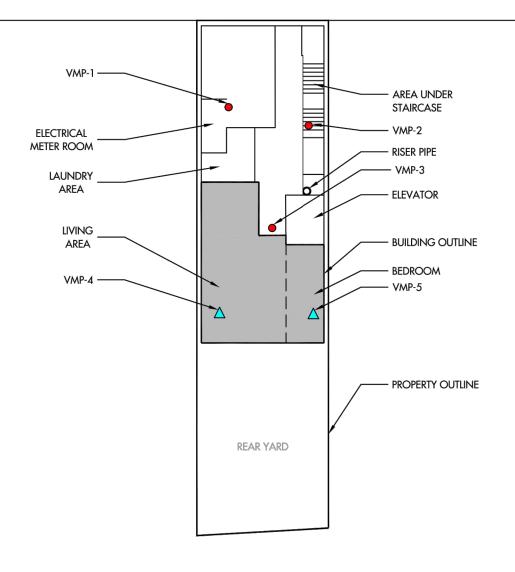
- Since the concentrations of contaminants of concern in groundwater have reached asymptotic levels that marginally exceeded GQS, it recommended that the groundwater monitoring and reporting shall be modified and then terminated pursuant to an updated SMP that will be submitted to NYSDEC for approval by July 30, 2021. The next groundwater monitoring and reporting shall be due in November 2021 as requested by NYSDEC in order to evaluate the natural attenuation of residual PCE concentrations in groundwater before making a final decision to terminate the groundwater monitoring program at the Site.
- Since the SSD system has proven to produce the required sub-slab vacuum communication for the mitigation of potential soil vapor intrusion beneath the building, it is recommended that SSD system monitoring, and inspection activities be changed from quarterly basis to annually and by also implementing monthly inspections by the building management as requested by NYSDEC for the proper implementation of O&M plan in the November 2018 SMP. The SSD system modified inspection and monitoring schedule shall be reflected in the updated SMP that will be submitted to NYSDEC for approval by July 30, 2021.
- The frequency for the submittal of PRR will be modified in the updated SMP from the 5-year intervals as listed in the November 2018 SMP to annually. The next PRR is due May 2022 or at another frequency as may be required by the NYSDEC.

FIGURES





31ST DRIVE



LEGEND

 \triangle

PERMANENT VACUUM MONITORING POINTS

TEMPORARY VACUUM MONITORING POINTS

(DECOMMISSIONED AFTER SSDS STARTUP)

RESIDENTIAL UNIT

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BASE DRAWING PREPARED BY

PROJECT NAME AND ADDRESS

11-28 31ST DRIVE QUEENS, NY 11106

PROJECT FIGURE

FIGURE 2: VACUUM MONITORING POINTS LOCATIONS

PROJECT NO. 190055	DATE 5/13/21	
DRAWN BY V.D.	REVIEWED BY P.M.	
SCALE (11X17) NOT TO SCALE	APPROVED BY T.K.	

⊗ MW-6

8.22 31ST DRIVE / ⊗ MW-4 9.25 \otimes MW-3 MW-2 \otimes C.I. = 0.515 FEET MW-1 MONITOR GROUNDWATER WELL I.D. **ELEVATIONS** 9.3 8.22 2 8.39 3 8.26 4

LEGEND

 \otimes

MONITORING WELL

NOT ACCESSIBLE

NOTE:
DASHED LINE WHERE CONTOUR IS INFERRED

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BASE DRAWING PREPARED BY

PROJECT NAME AND ADDRESS

11-28 31ST DRIVE QUEENS, NY 11106

PROJECT FIGURE

FIGURE 3: GROUNDWATER FLOW CONTOUR MAP-NOVEMBER 2020

PROJECT NO.	DATE
190055	5/13/21
DRAWN BY V.D.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY T.K.

TABLES

Table 1 Groundwater Samples Analytical Results for PCE and TCE _ Over Time 11-28 31st Drive, Queens, NY

Sampling Date	MW-1		MW-2		MW-3		MW-4		MW-6	
Sampling Date	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
1/13/2015	0.2 U	0.2	3.03	0.2 U	20.83	0.52	3,799.8	17	85.83	8.90
2/19/2018	0.28 J	0.2 U	25	0.4 J	4.10	0.2 U	70	0.66	75	15
7/24/2018	0.2 U	0.2 U	20	0.63	1.20	0.2 U	13	0.43 J	43	0.4 6 J
11/20/2018	0.2 U	0.2 U	11.60	0.68	0.22	0.2 U	2.28	0.2 U	28.4	0.48 J
8/30/2019	0.2 U	0.2 U	20.1	1.21	0.92	0.2 U	2.87	0.2 U	49.6	0.42 DJ
12/10/2019	0.2 U	0.2 U	21.90	1.35	1.27	0.2 U	1.75	0.2 U	NA	
3/17/2020	0.2 U	0.2 U	6.77	0.52	1.50	0.2 U	6.70	0.2 U	NA	
7/31/2020	0.2 U	0.2 U	10	0.90	0.54	0.2 U	2.36	0.2 U	NA	
12/3/2020	0.2 U	0.2 U	1.70	0.2 U	1.28	0.2 U	7.16	0.2 U	1	NA

NOTES:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated U=analyte not detected at or above the level indicated

Shaded concentration exceeds GQS of PCE or TCE of $5 \mu g/L$

GQS=NYSDEC TOGS Standards and Guidance Values - GA

PCE=Tetrachloroethylene

TCE=Trichloroethylene

1/13/2015=Sampling performed during the Remedial Investigation

2/19/2018=Baseline sampling performed prior to ISCO Injection Program

7/24/2018= Sampling performed 2 months post-ISCO injections

11/20/2018=Quaretrly sampling performed 5 months post-ISCO injections

8/30/2019 to 12/3/2020=Quartely sampling performed 30 months post-ISCO Injections to-

NA= Not sampled due to limited access

Table 2 SSDS Monitoring Results

11-28 31 Drive ,Queens, New York, NYSDEC Site Number: C241159

	SSDS	SSDS Effluent			Vaccum Monitoring Points				
Date/Time	Vacuum				VMP-1	VMP-2	VMP-3	VMP-4	VMP-5
	v acuum	PID	Flow	Temp	Vacuum				
9/9/2019	-0.74	0.2	518	76.46	-0.031	-0.040	-0.041	-0.036	-0.039
10/15/2019	-0.74	NA	NA	NA	-0.030	-0.036	-0.042	-0.036	-0.038
12/10/2019	-0.74	0.1	470.8	62.2	-0.024	-0.032	-0.034	D	D
3/2/2020	-0.74	0.1	440.1	65.5	-0.023	-0.035	-0.033	D	D
7/15/2020	-0.74	0.3	503.7	78.0	-0.030	-0.040	-0.060	D	D
11/19/2020	-0.75	0.1	416.8	48.8	-0.030	-0.040	-0.040	D	D
4/16/2021	-0.74	0.1	390.4	51.1	-0.030	-0.030	-0.040	D	D

Vacuum --- Inch Water Flow

PID --- ppm

Flow --- CFM

Temperature --- °F

NA---Not measured

D---Decommissioned

APPENDICES

APPENDIX 1 NYSDEC CORRESPONDENCES

From: O'Connell, Jane H (DEC) < jane.oconnell@dec.ny.gov>

Sent: Wednesday, March 17, 2021 8:34 AM

To: Paul Matli <pmatli@hydrotechenvironmental.com>

Cc: Martinkat, Sondra (DEC) <sondra.martinkat@dec.ny.gov>; genmail@mcnyinc.com; Tarek Khouri <tkhouri@hydrotechenvironmental.com>; Kuehner, Wendy S (HEALTH) <wendy.kuehner@health.ny.gov>

Subject: RE: C241159 - Reminder Notice: Site Management PRR and IC/EC Certification Submittal

Thank you Paul. I am ok with monthly SSDS check by on-site staff and annual engineering/maintenance inspection by HydroTech. The monthly inspections must be documented and included in the PRR, along with the annual engineering/maintenance inspection. If any deficiencies are noted in the monthly inspection, HydroTech must be notified immediately to make necessary repairs, and that must be documented to DEC and DOH in an email as well as in the PRR.

Please submit draft revised sections and cover page for the SMP within 30 days to document the approved changes to the inspection/sampling frequency for the SSDS and groundwater sampling.

Jane

Jane H. O'Connell, P.G.

Regional Remediation Engineer, Division of Environmental Remediation

New York State Department of Environmental Conservation

47-40 21st Street, Long Island City, NY 11101

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From: Paul Matli pmatli@hydrotechenvironmental.com>

Sent: Tuesday, March 16, 2021 5:33 PM

To: O'Connell, Jane H (DEC) < jane.oconnell@dec.ny.gov>

Cc: Martinkat, Sondra (DEC) <sondra.martinkat@dec.ny.gov>; genmail@mcnyinc.com; Tarek Khouri

<tkhouri@hydrotechenvironmental.com>

Subject: RE: C241159 - Reminder Notice: Site Management PRR and IC/EC Certification Submittal

Hello Jane – Thanks for your review of the January 2021 QSR and for the option to suspend the groundwater sampling till next fall.

My response to your question about the SSD system are highlighted in red below:

- 1. Does the system have remote telemetry to notify you if the blower is down? No Telemetry is being installed for this SSDS. There is a visual and audible alarm adjacent to the elevator door in the lobby area on the first floor.
- 2. Is there an on-site superintendent or other maintenance staff that can do monthly checks of the system. Yes, Tylor Man will be the on-site superintendent monitoring the SSD system on a monthly basis.

Regards,

Paul I. Matli, Ph.D., P.G.

Vice President



77 Arkay Drive, Suite K, Hauppauge, NY 11788

Cell: 631-241-7165 | Tel: 631-462-5866 Ext 110 | Fax: 631-462-5277

Email: pmatli@hydrotechenvironmental.com
Website: www.hydrotechenvironmental.com

Please consider the environment before printing this email

From: O'Connell, Jane H (DEC) < <u>iane.oconnell@dec.ny.gov</u>>

Sent: Tuesday, March 16, 2021 1:31 PM

To: Paul Matli pmatli@hydrotechenvironmental.com>

Cc: Martinkat, Sondra (DEC) < sondra.martinkat@dec.ny.gov>; genmail@mcnyinc.com; Tarek Khouri

<tkhouri@hydrotechenvironmental.com>

Subject: RE: C241159 - Reminder Notice: Site Management PRR and IC/EC Certification Submittal

Paul:

I have reviewed the quarterly report dated January 13, 2021. While I agree that the quarterly groundwater sampling can be suspended, I request that you perform one additional annual sampling event in November 2021. That data should be reported in the 2021 PRR with an evaluation of the historical data, including graphs showing the pre- and post-remedy gw concentrations in each well.

As for the SSDS, I have a couple of questions:

- 1. Does the system have remote telemetry to notify you if the blower is down?
- 2. Is there an on-site superintendent or other maintenance staff that can do monthly checks of the system?

I would need answers to the questions before I can weigh in on discontinuing the quarterly system checks by HydroTech.

Jane

Jane H. O'Connell, P.G.

Regional Remediation Engineer, Division of Environmental Remediation

New York State Department of Environmental Conservation

47-40 21st Street, Long Island City, NY 11101

P: (718) 482-4599 | F: (718) 482-6358 | M: (917) 817-1845 | jane.oconnell@dec.ny.gov







From: Paul Matli <pmatli@hydrotechenvironmental.com>

Sent: Friday, March 12, 2021 5:44 PM

To: O'Connell, Jane H (DEC) < jane.oconnell@dec.ny.gov>

Cc: Martinkat, Sondra (DEC) <sondra.martinkat@dec.ny.gov>; genmail@mcnyinc.com; Tarek Khouri

<tkhouri@hydrotechenvironmental.com>

Subject: RE: C241159 - Reminder Notice: Site Management PRR and IC/EC Certification Submittal

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails

Jane - Please accept my apology for my repeated emails seeking the department approval of our recommendations made in the last QSR dated January 13, 2021 to modify the SMP to terminate the groundwater sampling and reduce the schedule of inspections of active SSDS system to annual monitoring.

I appreciate your response on this inquiry as we need your directions before we mobilize to Site to performed the annual ECs inspection for the second PRR that is due by May 20, 2021.

Regards,

Paul I. Matli, Ph.D., P.G.

Vice President



77 Arkay Drive, Suite K, Hauppauge, NY 11788

Cell: 631-241-7165 | Tel: 631-462-5866 Ext 110 | Fax: 631-462-5277

Email: pmatli@hydrotechenvironmental.com Website: www.hvdrotechenvironmental.com

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APPENDIX 2 HISTORIC QUARTERLY STATUS REPORT



HydroTech Environmental ENGINEERING AND GEOLOGY, DPC

NYC Office 15 Ocean Avenue, Suite 2B Brooklyn, New York 11225 T (718) 636-0800; F (718) 636-0900 Long Island Office 77 Arkay Drive, Suite K Hauppauge, New York 11788 T (631) 462-5866; F (631) 462-5877

WWW.HYDROTECHENVIRONMENTAL.COM

May 4, 2020

Ms. Sondra Martinkat New York State Department of Environmental Conservation 47-40 21st Street Long Island City, NY 11101-5407

Re: Quarterly Status Report # 3 - December 2019 to February 2020

11-28 31st Drive, Queens, NY NYSBCP Site #C241159

Dear Ms. Martinkat:

This report is intended to serve as a Quarterly Status Report (QSR), covering the period from December 2019 through February 2020 for the above-referenced Site. The Site is enrolled in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) and is assigned number **C241159**. The scope of work presented is based upon the NYSDEC-approved Site Management Plan (SMP) dated November 2018 and was performed on behalf of the property owner, GBT Real Estate, LLC. The scope of work involves the quarterly monitoring and sampling of five existing monitoring wells and the quarterly monitoring of the active Sub-Slab Depressurization System (SSDS).

Groundwater Monitoring and Sampling

In accordance with the NYSDEC-approved SMP, the five monitoring wells MW-1 to MW-4 and MW-6 have been gauged on a quarterly basis for the presence of free product and also to determine the depth to groundwater. The location of monitoring wells is shown in **Figure 1**. The groundwater monitoring and sampling for the quarterly period covered in this report was in fact performed during March 2020 instead of February 2020 due a back order of sampling materials. This gauging was performed on March 20, 2020 utilizing a Solinst 122 Oil/Water Interface Probe. During this event, access to monitoring well MW-6 has been obstructed by a locked construction fence erected around a vacant property located to the north of the Site. None of the remaining monitoring wells were found to contain free product. The depth to water during this monitoring event ranged from 9.71 feet in MW-4 to 11.40 feet in MW-1. This depth to water in these wells represents an increase by an average 0.26 feet since the last event during November 2019.

Table 1 provides the groundwater monitoring and elevation data for the period covered by this report and historical monitoring data. **Attachment A** provides the well monitoring sheet.

Utilizing historical monitoring well casing elevations and the depth to water, the groundwater elevation in the wells were then determined. The groundwater elevations indicate the groundwater flow direction beneath the Site continues to be toward the southwest, consistent



with the historic flow directions mapped for this Site. **Figure 2** provides a contour map of groundwater flow direction during March 2020.

Passive Diffusion Bag (PDB) samplers for the groundwater sampling were then placed inside each of the four the monitoring wells MW-1 to MW-4 following well gauging. The PDBs were left inside the wells for the duration of 14 days and were recovered on March 16, 2019.

The groundwater samples collected from the PDBs were placed in laboratory-supplied containers and secured in a cooler filled with ice and maintained at a maximum 4 degrees Celsius. The samples were transmitted under proper chain of custody procedures to a Statecertified (ELAP) laboratory and analyzed for tetrachloroethylene (PCE) and trichloroethylene (TCE) in accordance with EPA Method 8260.

Investigatory-derived waste (IDW) consisting of excess liquid generated during the sampling from of PDBs were placed into a 55-gallon drum. The drum was disposed of in accordance with DER-10 Technical Guidance for Site Investigation and Remediation (May 2010). **Attachment B** provides a copy of the final disposal manifest.

Laboratory analytical results for PCE and TCE in groundwater samples are provided in **Table 2**. Table 2 also provides the PCE and TCE concentrations over time and a comparison to NYSDEC 6NYCRR Part 703.5 Class groundwater Quality Standards (GQS). **Attachment C** provides a copy of the laboratory analytical report.

As **Table 2** indicates, PCE was detected in MW-2 and MW-4 at a concentrations that marginally exceed its GQS of 5 μ g/L. PCE is present in MW-2 at a concentration of 6.77 μ g/L, which represents a 70% decrease from 21.90 μ g/L detected during the previous sampling in December 2019. PCE in MW-4 occurred at 6.7 μ g/L, which represents a slightly increased from 1.75 μ g/L detected during December 2019. PCE continues to be undetected in MW-1 and its concentrations in MW-3 continues to be below its GQS. TCE was only detected in MW-2 at a concentration less than GQS of 5 μ g/L. TCE was not detected in MW-1, MW-3 or MW-4.

Overall findings of this investigation continue to support the findings made over the course of historic groundwater sampling performed at this Site since November 2018. These findings reflect a general reduction in PCE and TCE concentrations since the completion of the remedial injection program.

The groundwater data was submitted electronically to the NYSDEC through the Environmental Information Management System using the NYSDEC standardized Electronic Data Deliverable (EDD) format. A Data Usability Summary Report (DUSR) was also prepared for the analytical results by an independent data reviewer, Mr. Donald Anne of Alpha Geoscience in Clifton Park, NY. The DUSR indicates the data is acceptable and is considered usable. A copy of the DUSR is provided in **Attachment D**.



Active Sub-Slab Depressurization System

The active SSDS has been monitored on a quarterly basis. For the period covered in this report, the monitoring of SSDS was performed alongside the gauging of monitoring wells on March 20, 2020. During this monitoring event, a Qualified Environmental Professional inspected the system for proper functioning in accordance with the SSDS Operation and Maintenance Plan in the SMP. **Figure 3** provides the location of the vacuum monitoring points associated with the SSDS.

Table 3 provides the SSDS Monitoring Data collected during March 2020. The SSDS vacuum observed at the inline Dwyer Magnehelic dial type vacuum gauge was recorded at -0.74 inches H₂O. The effluent of the SSDS was monitored with a Photoionization Detector (PID); no organic vapors were detected. The radius of influence of the SSDS was monitored by measuring the vacuum at the three permanent sub-slab vacuum monitoring points VMP-1 to VMP-.

The vacuum at the vacuum monitoring points VMP-1 to VMP-3 was measured using Model 8710 DP-Calc™ Micromanometer, which measures differential pressure in inches H₂O. Differential pressure readings obtained at the three vacuum monitoring points indicate a vacuum ranging between -0.023 and -0.035 inches H₂O across the building slab. This level of negative pressure is consistent with the previous monitoring performed during November 2019 and it continues to reflect a satisfactory sub-slab vacuum communication for mitigating potential soil vapor intrusion beneath the building.

The groundwater sampling and SSDS monitoring will continue on a quarterly basis in accordance with the NYSDEC-approved SMP. The next quarterly groundwater sampling and SSDS monitoring event is scheduled for May 2020.

Should you have any questions, please feel free to contact our office at your convenience.

Very Truly Yours,

HydroTech Environmental Engineering and Geology, DPC

Paul I. Matli, PhD, PG

and I. MINE

Senior Project Manager

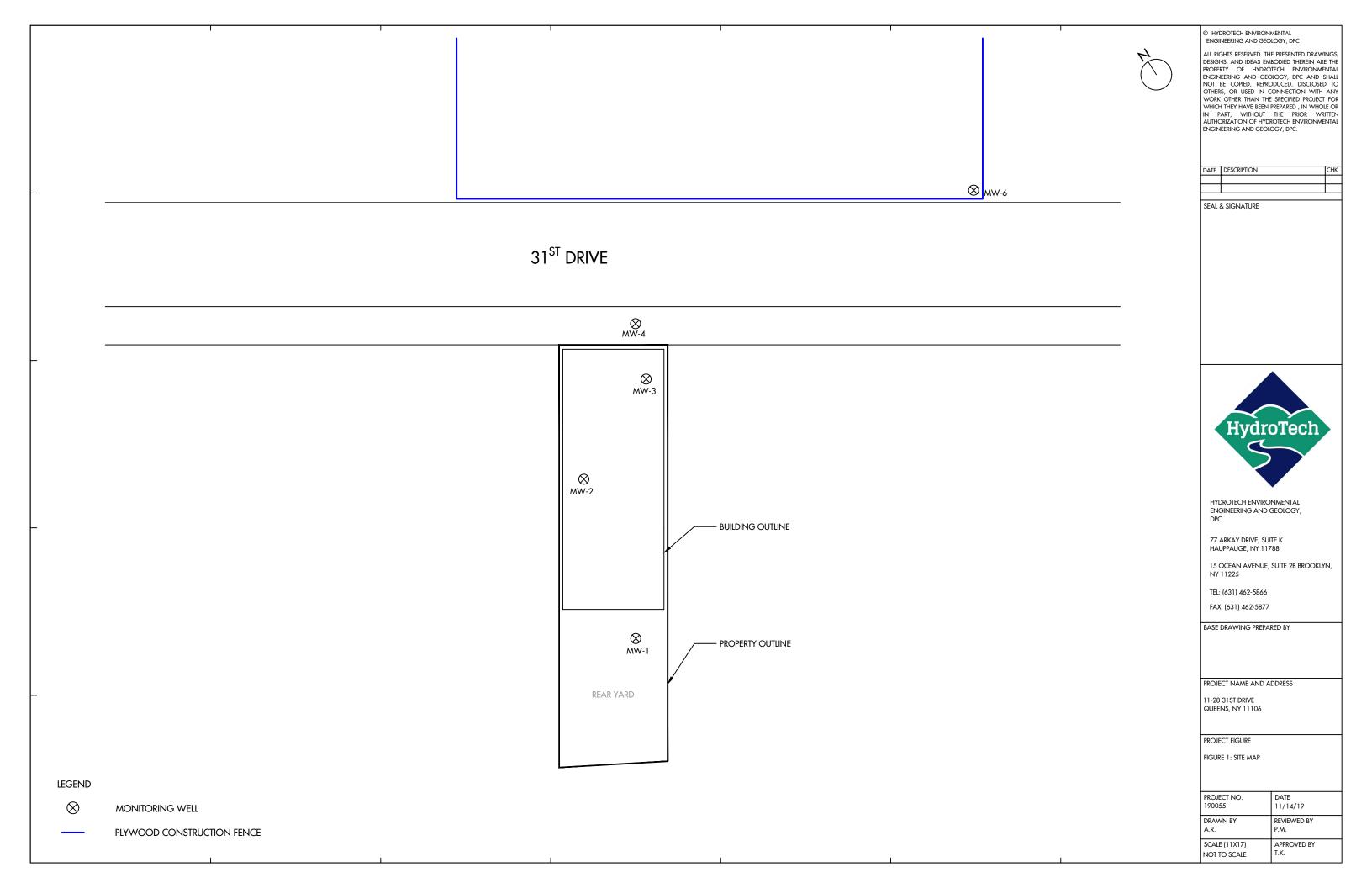
PIM/as

Enc.

cc: Mr. George Man - GBT Real Estate LLC (by email) w/ Enc.

HydroTech file 190055 w/ Enc.

Figures





⊗ MW-6

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15 OCEAN AVENUE, SUITE 2B BROOKLYN, NY 11225

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FAX: (631) 462-5877

BASE DRAWING PREPARED BY

PROJECT NAME AND ADDRESS

11-28 31ST DRIVE QUEENS, NY 11106

PROJECT FIGURE

FIGURE 2: GROUNDWATER FLOW CONTOUR MAP

PROJECT NO. 190055	DATE 3/24/20
DRAWN BY A.R.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY T.K.

31ST DRIVE

8.9 9.7 \otimes MW-4

C.I	. = 0.8 FEET
MONITOR WELL I.D.	GROUNDWATER ELEVATIONS (FEET)
1	8.7
2	8.08
3	9.72
4	8.61
6	NOT ACCESSIBLE

LEGEND

MONITORING WELL

MW-2	
	8.32

DASHED LINE WHERE CONTOUR IS INFERRED



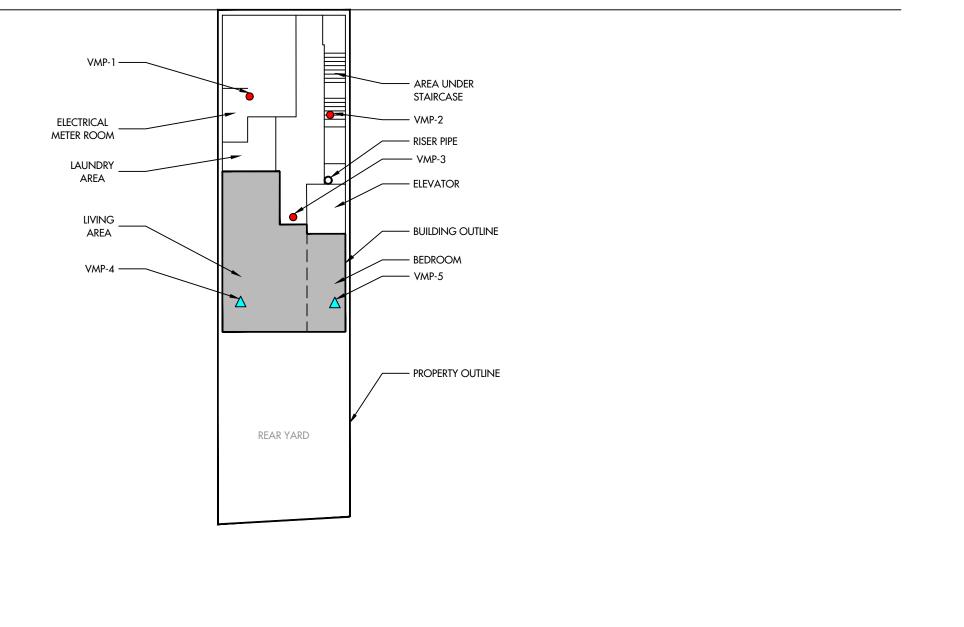


LEGEND

PERMANENT VACUUM MONITORING POINTS

TEMPORARY VACUUM MONITORING POINTS (DECOMMISSIONED AFTER SSDS STARTUP)

RESIDENTIAL UNIT



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BASE DRAWING PREPARED BY

PROJECT NAME AND ADDRESS

11-28 31ST DRIVE QUEENS, NY 11106

PROJECT FIGURE

FIGURE 3: VACUUM MONITORING POINTS MAP

PROJECT NO. 190055	DATE 11/14/19
DRAWN BY A.R.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY T.K.

Tables

Table 1 Groundwater Monitoring Results Over Time

11-28 31st Drive, Queens, NY

	<i>c</i> :		Augu	st 2019		Novem	ber 2019		March 202	020				
Well ID	Casing Elevation	DTP	DTW	Water Table Elevation	DTP	DTW	Water Table Elevation	DTP	DTW	Water Table Elevation				
MW-1	12.7	ND	11.08	8.38	ND	11.23	8.53	ND	11.4	8.7				
MW-2	12.7	ND	11.01	8.31	ND	11.15	8.45	ND	10.78	8.08				
MW-3	11.51	ND	9.96	8.45	ND	10.1	8.59	ND	11.23	9.72				
MW-4	11.10	ND	9.44	8.34	ND	9.60	8.50	ND	9.71	8.61				
MW-6	9.47	ND	9.97	10.5	ND	10.15	10.68	ND	NA	NA				

All values reported in feet.

DTW...Depth to Water from top of casing

DTP...Depth to Product from top of casing

ND...None Detected

NA...Not Accessible

Water Table elevations adjusted by a site benchmarck elevation of 10 feet

$Tabel\ 2$ Groundwater Samples Analytical Results for PCE and TCE $_$ Over Time

	11-28 31st Drive, Queens, NY																																																							
Sample ID				N	IW-1										MW	-2						7				M	IW-3										N	MW-4											MW-6					Ti	rip Blank	ī
Sampling Date	1/13/201	5 2/19/	2018 7/24	/2018 11	/20/2018	8 8/30/20	019 ####	##### 3	3/17/20	20 1/13	3/2015	2/19/2	018 7	7/24/20	18 11/2	0/2018	####	### ###	#####	3/17/2	020 1/13	/2015	2/19/20	.018 7/2	24/2018	11/20	J/2018	8/30/20	019 12	2/10/201	19 3/17/2	020	1/13/2015	2/1	9/2018	7/24/	/2018	11/20/2	2018 #	######	12/10/2	2019 3/	17/2020	1/13/	2015	2/19/20	18 7/	/24/2018	11/20/	/2018 8,	3/30/2019	9 #####	## 3/17/2	2020 3/	/17/2020 QG	S
Compound	μg/L (Q μg/L	Q μg/	L Q I	g/L Q	μg/L	Q μg/	L Q	μg/L	Q μg/	'L Q	μg/L	Q	μg/L	Q μg,	'L Q	μg/L	Q μg	/L Q	μg/L	Q μg/	L Q	μg/L	Q µg	g/L C	2 μg/	L Q	μg/L	Q I	μg/L	Q μg/L	Q	μg/L (Q μg	/L Q	μg/l	L Q	μg/L	Qμ	g/L Q	μg/L	Qμ	g/L C	μg/L	Q	μg/L	Qμ	g/L Ç	2 μg/L	Qµ	μg/L Q	2 μg/L	. μg/	Lμ	g/L Q	<u>/</u>
Tetrachloroethylene	0.2	U 0.28	J 0.23	U	0.22 U	0.22	U 0.20	0 U	0.20	U 3.0	3	25		20	11.	60	20.1	21	.90	6.77	20.8	,3	4.10	1.	20	0.2	2 U	0.92		1.27	1.50		3,799.8	7	70	13		2.28		2.87	1.75		5.70	85.83	D	75		43	28.4		49.6 D	N _{IA}	NA.	- 1 4	0.20 U 5	
Trichloroethylene	0.2	U 0.2	U 0.20	U	0.20 U	0.20	U 0.20	0 U	0.20	U 0.2	2 U	0.40	J	0.63	0.6	8	1.21	1.	35	0.52	0.5	2	0.2	U 0.).20 U	0.2) U	0.20	u	0.20	U 0.20	U	17	0.	66	0.43	3 J	0.20	U (0.20	0.20	U (0.20 L	8.90		15		0.46 J	0.48	J	0.42 D)J	142		0.20 U 5	
NOTES:																																																								Т
Q is the Qualifier Colu	mn with de	finitions as	follows:												1/13	/2015=	Samplin	g perfor	med du	ring the	Remedial	. Investi	igation																																	
D=result is from an ana	alysis that n	equired a	lilution												2/19	/2018=	Baseline	samplii	g perfo	med pri	or to ISC	O Inject	tion Prog	gram																																
J=analyte detected at o	r above the	MDL (me	hod detection	n limit) bu	t below t	he RL (Rep	orting Li	imit) - da	ta is esti	imated					7/24	/2018=	Samplii	ng perfo	med 2 i	nonths p	ost-ISCC	injectic	ons																																	
U=analyte not detected																							SCO injec																																	
NS=this indicates that	no regulato	ry limit ha	been establ	ished for t	his analy	te															months p	ost-ISC(O Injectio	ons																																
GWS=NYSDEC TOGS	Standards a	and Guida	ce Values -	GA											NA=	Not sar	mpled d	ue to lin	nited acc	ess																																				
	Snaded co	ncentratio	exceeds GQ	15																																																				



Table 3 SSDS Monitoring Data Log Sheet Over Time

11-28 31 Drive ,Queens, New York, NYSDEC Site Number: C241159

		S	SDS Efflu	10nt	Vaccum Monitoring Points									
Date/Time	SSDS Vacuum	5	JDJ LIII	aciit	VMP-1	VMP-2	VMP-3	VMP-4	VMP-5					
		PID	Flow	Temp										
9/9/2019	-0.74	0.2	518	76.46	-0.031	-0.040	-0.041	-0.036	-0.039					
10/15/2019	-0.74	NA	NA	NA	-0.030	-0.036	-0.042	-0.036	-0.038					
12/10/2019	-0.74	0.1	470.8	62.2	-0.024	-0.032	-0.034	D	D					
3/2/2020	-0.74	0.1	440.1	65.5	-0.023	-0.035	-0.033	D	D					

Vacuum --- Inch Water Flow

PID --- ppm

Flow --- CFM

Temperature --- °F

NA---Not measured

D---Decommissioned

Attachments

Attachment A Well Monitoring Sheet



WELL MONITORING LOG SHEET

Project Name	11-28 3 Drive		Date	3-17-2010
Client	Mr. George Man		Instrument	
Site Location	11-28 31 Drive		Spill No.	
Monitoring Schedule	Monthly:	Quartely :	Bi-Annually :	_
S = Snow D = 1 DTW = Depth to Water	•	Legend C = Can't Loc coduct PT = Produc		e Detected
Monitoring V MW-1 MW-2 MW-3 MW-4 MW-6	Well D.T.P. ND ND ND ND NA	D.T.W. R 11.4 11.78 11.23 9.71 NA	Riser abovegrund	
Notes: All meast Notes:	All measurements are ND=none detected	-	vell casing	
Reported By:	D=destroyed NA			
Paul I. Matli				

Attachment B Drum Disposal Manifest

18-23-26-20

393439/ 39343864/2

	1 Const. ID N . I							
A	NON-HAZARDOUS 1. Generator ID Number	2. Page 1 of	3. Emergency Respon		4. Waste T	racking Nu	mber	
П	WASTE MANIFEST N / A	-1	(267) 406-00	183		de	12373	
П	5. Generator's Name and Mailing Address GBT Real Estate LLC Att. Ge	eorge Man	Generator's Site Addre	ess (if different t	han mailing addr	ess)		
П	11-28 31st Drive	_			3	/		
П	Long Island City NY 11106							
П	Generator's Phone: 371 416-2002	1						
П	6. Transporter 1 Company Name							
	The state of the s				U.S. EPA ID	Number		
	Innovative Recycling Technologies, Inc.				NYF	0 0	0 1 3 4	9 4 0
	7. Transporter 2 Company Name				U.S. EPA ID			
	Republic Environmental Systems (Trans Group)LL	C			PAF	9 0 6	2661	2 0 4
	8. Designated Facility Name and Site Address				U.S. EPA ID		2001	301
	Republic Environmental Systems (PA), LLC 2869 Sandstone Drive				0.0. LI A ID	Mullipel		
	Hatfield PA 19440							
					1			
	Facility's Phone: 215 822-8995				PAD	0 8	5690	592
	9. Waste Shipping Name and Description		10. Con	tainers	11. Total	12. Unit		
	11 0 mm mm = 500 pm mm		No.	Type	Quantity	Wt./Vol.		
ď	Non Hazardous Purge Water			17/12				
10	Non-DOT Regulated Material							
RA			mi	Dm	(р		
GENERATOR	2.		()	MIL	30	8		
G								
	3.							
	0.							
	4.							
	13. Special Handling Instructions and Additional Information							
П	9.1) 996775 Dog#							
П	Doc# 182319-20							
Н								
П	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this of marked and labeled/placarded, and are in all respects in proper condition for transport accounts.	consignment are	fully and accurately des	scribed above b	v the proper ship	ning name	and are classified	nackaged
H	The series of th	ruing to applicat	ne international and hati	ional governme	ntal regulations.	ping name,	and are classified, j	packageu,
	denerators/Onerors Fillied/Typen Nama	Signa	ture				Month [Day Year
A	to James Ulanh behalt of	1		П		\	$\sim 10^{\circ}$	Dr. 1)17
	13. International Shipments Import to U.S.	Evenous from 11.0				-		-OBKU
=	Transporter Signature (for exports only):	Export from U.9		ntry/exit:				
r	16. Transporter Acknowledgment of Receipt of Materials		Date leavi	ing U.S.:	Λ			
	Transporter 1 Printed/Typed Name	Signa	hura		_//			
5	s hamal lan	I		1	X		Month	Day Year
2	Transporter 2 Printed Typed Name		1200	en	/ (5 2	(0)20
2	Miliar O Och 1	Signa	tule M	7. —	-		Month C	ay Year
+	17 Diseases		A				141	707
9 -	17. Discrepancy		,					
	17a. Discrepancy Indication Space Quantity Type		Residue	Γ	7			
	У		L nesique	L	Partial Rejec	tion	L Full F	Rejection
L			Manifest Reference N	lumber:				
	17b. Alternate Facility (or Generator)				U.S. EPA ID Nu	mher		
5					o. Li A ID Nu			
	Facility's Phone:			Ī				
	17c. Signature of Alternate Facility (or Generator)							
	,	ı					Month D	ay Year
				\	><)	
1	8. Designated Facility Owner or Operator: Certification of receipt of materials covered by the ma	anifest except as	noted in Item 17a	XI			/	
F	Printed/Typed Name	Signatu		Un			Month i Da	av Vas:
	14/14/V V XLW1010			115			Month Da	y Year

Attachment C Laboratory Analytical Report



Technical Report

prepared for:

Hydro Tech Environmental (Brooklyn)

15 Ocean Avenue, Suite 2B Brooklyn NY, 11225 Attention: Paul Matli

Report Date: 03/25/2020

Client Project ID: 190055 11-28 31st Drive Queens NY

York Project (SDG) No.: 20C0824

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE www.YORKLAB.com

STRATFORD, CT 06615 (203) 325-1371

132-02 89th AVENUE FAX (203) 357-0166 RICHMOND HILL, NY 11418 ClientServices@yorklab.com

Report Date: 03/25/2020

Client Project ID: 190055 11-28 31st Drive Queens NY

York Project (SDG) No.: 20C0824

Hydro Tech Environmental (Brooklyn)

15 Ocean Avenue, Suite 2B Brooklyn NY, 11225 Attention: Paul Matli

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 18, 2020 and listed below. The project was identified as your project: 190055 11-28 31st Drive Queens NY.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
20C0824-01	MW-1 (MS/MSD) - 20200317	Water	03/17/2020	03/18/2020
20C0824-02	MW-2 - 20200317	Water	03/17/2020	03/18/2020
20C0824-03	MW-3 - 20200317	Water	03/17/2020	03/18/2020
20C0824-04	MW-4 - 20200317	Water	03/17/2020	03/18/2020
20C0824-05	Trip Blank - 20200317	Water	03/17/2020	03/18/2020

General Notes for York Project (SDG) No.: 20C0824

- 1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
- 2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
- 3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
- 4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
- 5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
- 6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
- 7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Benjamin Gulizia Laboratory Director **Date:** 03/25/2020



Sample Information

Client Sample ID: MW-1 (MS/MSD) - 20200317

York Sample ID:

20C0824-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20C0824

190055 11-28 31st Drive Queens NY

Water

nter March 17, 2020 12:00 am

03/18/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS N	lo. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	03/24/2020 12:30 ELAC-NY10854,NELA	03/25/2020 00:18 AC-NY12058,NJDEP	AB PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	03/24/2020 12:30 ELAC-NY10854,NELA	03/25/2020 00:18 AC-NY12058,NJDEP	AB PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	85.4 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	97.5 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %			79-122							

Sample Information

Client Sample ID: MW-2 - 20200317

York Sample ID:

20C0824-02

York Project (SDG) No. 20C0824

Client Project ID
190055 11-28 31st Drive Queens NY

Matrix Water Collection Date/Time
March 17, 2020 12:00 am

Date Received

olatile Organics 8260 - TCF/PCF

Log-in Notes:

Sample Notes:

03/18/2020

<u>Volatile</u>	Organics,	<u>8260 - 1</u>	CE/PCE

Sample Prepared by Method: EPA 5030B

CAS No	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	6.77	CCV-E	ug/L	0.200	0.500	1	EPA 8260C		03/24/2020 12:30	03/25/2020 00:46	AB
								Certifications:	CTDOH,N	ELAC-NY10854,NEL	AC-NY12058,NJDE	P,PADEP
79-01-6	Trichloroethylene	0.520		ug/L	0.200	0.500	1	EPA 8260C		03/24/2020 12:30	03/25/2020 00:46	AB
								Certifications:	CTDOH,N	ELAC-NY10854,NEL	AC-NY12058,NJDE	P,PADEP
	Surrogate Recoveries	Result		Acce	ptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	91.0 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	96.6 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %			79-122							

Sample Information

Client Sample ID: MW-3 - 20200317

York Sample ID:

20C0824-03

York Project (SDG) No. 20C0824 <u>Client Project ID</u> 190055 11-28 31st Drive Queens NY Matrix Water

FAX (203) 357-0166

<u>Collection Date/Time</u> March 17, 2020 12:00 am Date Received 03/18/2020

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(203) 325-1371

132-02 89th AVENUE

RICHMOND HILL, NY 11418

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Page 4 of 11



Sample Information

MW-3 - 20200317 **Client Sample ID:**

York Sample ID: 20C0824-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20C0824

190055 11-28 31st Drive Queens NY

Water

March 17, 2020 12:00 am

03/18/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared	by	Method:	EPA	5030B
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CAS No	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	1.49	CCV-E	ug/L	0.200	0.500	1	EPA 8260C		03/24/2020 12:30	03/25/2020 01:15	AB
								Certifications:	CTDOH,N	ELAC-NY10854,NEL	AC-NY12058,NJDEI	P,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C		03/24/2020 12:30	03/25/2020 01:15	AB
								Certifications:	CTDOH,NI	ELAC-NY10854,NELA	AC-NY12058,NJDEP	,PADEP
	Surrogate Recoveries	Result		Acce	eptance Rang	e						
17060-07-0	Surrogate: SURR:	91.4 %			69-130							
	1,2-Dichloroethane-d4											
2037-26-5	Surrogate: SURR: Toluene-d8	96.1 %			81-117							
460-00-4	Surrogate: SURR:	103 %			79-122							
	p-Bromofluorobenzene											

Sample Information

MW-4 - 20200317 **Client Sample ID:**

York Sample ID:

20C0824-04

York Project (SDG) No. 20C0824

Client Project ID

190055 11-28 31st Drive Queens NY

Matrix Water

Collection Date/Time March 17, 2020 12:00 am Date Received 03/18/2020

Analyst

Volatile Organics, 8260 - TCE/PCE

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS N	Vo. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Met	thod	Date/Time Prepared	Date/Time Analyzed	Analys
127-18-4	Tetrachloroethylene	6.70	CCV-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CT		03/24/2020 12:30 LAC-NY10854,NEL	03/25/2020 01:43 AC-NY12058,NJDE	AB P,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTI		03/24/2020 12:30 AC-NY10854,NEL	03/25/2020 01:43 AC-NY12058,NJDEF	AB P,PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e						
17060-07-0	Surrogate: SURR: 1.2-Dichloroethane-d4	92.8 %			69-130							

Sample Information

81-117

79-122

Trip Blank - 20200317 **Client Sample ID:**

Surrogate: SURR: Toluene-d8

Surrogate: SURR:

p-Bromofluorobenzene

York Sample ID:

20C0824-05

York Project (SDG) No. 20C0824

2037-26-5

460-00-4

Client Project ID 190055 11-28 31st Drive Queens NY Matrix Water

Collection Date/Time March 17, 2020 12:00 am Date Received 03/18/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

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96.2 %

102 %

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Sample Information

Client Sample ID: Trip Blank - 20200317

York Sample ID: 20C0824-05

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received20C0824190055 11-28 31st Drive Queens NYWaterMarch 17, 2020 12:00 am03/18/2020

Sample Prepared by Method: EPA 5030B

CAS N	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	03/24/2020 12:30 ELAC-NY10854,NELA	03/25/2020 02:12 AC-NY12058,NJDEP,	AB PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	03/24/2020 12:30 ELAC-NY10854,NELA	03/25/2020 02:12 AC-NY12058,NJDEP,	AB PADEP
	Surrogate Recoveries	Result		Acce	ptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	94.3 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	96.2 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %			79-122							



Analytical Batch Summary

Batch ID:	BC01436	Preparation Method:	EPA 5030B	Prepared By:	CLS2
-----------	---------	---------------------	-----------	--------------	------

YORK Sample ID	Client Sample ID	Preparation Date
20C0824-01	MW-1 (MS/MSD) - 20200317	03/24/20
20C0824-02	MW-2 - 20200317	03/24/20
20C0824-03	MW-3 - 20200317	03/24/20
20C0824-04	MW-4 - 20200317	03/24/20
20C0824-05	Trip Blank - 20200317	03/24/20
BC01436-BLK1	Blank	03/24/20
BC01436-BS1	LCS	03/24/20
BC01436-BSD1	LCS Dup	03/24/20
BC01436-MS1	Matrix Spike	03/24/20
BC01436-MSD1	Matrix Spike Dup	03/24/20



Volatile Organic Compounds by GC/MS - Quality Control Data York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Fla
Batch BC01436 - EPA 5030B											
Blank (BC01436-BLK1)							Prepa	ared & Analy	zed: 03/24/	2020	
Tetrachloroethylene	ND	0.500	ug/L								
Trichloroethylene	ND	0.500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	8.49		"	10.0		84.9	69-130				
Surrogate: SURR: Toluene-d8	9.75		"	10.0		97.5	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.7		"	10.0		107	79-122				
LCS (BC01436-BS1)							Prepa	ared & Analy	zed: 03/24/	2020	
Tetrachloroethylene	9.63		ug/L	10.0		96.3	82-131				
Γrichloroethylene	9.87		"	10.0		98.7	82-128				
Surrogate: SURR: 1,2-Dichloroethane-d4	8.91		"	10.0		89.1	69-130				
Surrogate: SURR: Toluene-d8	9.60		"	10.0		96.0	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.4		"	10.0		104	79-122				
LCS Dup (BC01436-BSD1)							Prepa	ared & Analy	zed: 03/24/	2020	
Tetrachloroethylene	9.53		ug/L	10.0		95.3	82-131		1.04	30	
Γrichloroethylene	9.91		"	10.0		99.1	82-128		0.404	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	8.65		"	10.0		86.5	69-130				
Surrogate: SURR: Toluene-d8	9.75		"	10.0		97.5	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.5		"	10.0		105	79-122				
Matrix Spike (BC01436-MS1)	*Source sample: 20	OC0824-01 (M	W-1 (MS/N	MSD) - 2020	00317)		Prepa	ared: 03/24/2	2020 Analyz	ed: 03/25/2	2020
Tetrachloroethylene	10.4		ug/L	10.0	0.00	104	64-139				
Trichloroethylene	10.9		"	10.0	0.00	109	53-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.20		"	10.0		92.0	69-130				
Surrogate: SURR: Toluene-d8	9.52		"	10.0		95.2	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.2		"	10.0		102	79-122				
Matrix Spike Dup (BC01436-MSD1)	*Source sample: 20	0C0824-01 (M	W-1 (MS/N	MSD) - 2020	00317)		Prepa	ared: 03/24/2	2020 Analyz	ed: 03/25/2	2020
Tetrachloroethylene	10.6	<u> </u>	ug/L	10.0	0.00	106	64-139		1.62	30	
Trichloroethylene	10.8		"	10.0	0.00	108	53-145		1.02	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.44		"	10.0		94.4	69-130				
Surrogate: SURR: Toluene-d8	9.53		"	10.0		95.3	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.2		"	10.0		102	79-122				

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container	_
20C0824-01	MW-1 (MS/MSD) - 20200317	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C	
20C0824-02	MW-2 - 20200317	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C	
20C0824-03	MW-3 - 20200317	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C	
20C0824-04	MW-4 - 20200317	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C	
20C0824-05	Trip Blank - 20200317	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C	



Sample and Data Qualifiers Relating to This Work Order

The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% CCV-E Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
---	--

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the LOO lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a MDL 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

Not reported NR

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take High Bias note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, DT 06615 (203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract. NOTE: York's Std. Terms & Conditions are listed on the back side of this document.

York Project No. 2000824 Page

of

YOUR Information	Report to:	Inv	Invoice To:	Your Project ID	Turn-Around Time	Report/Deliverable Type	ype
Company: HydroTech Env. Eng & Geol Di	SAME ×	SAME			RUSH-Same Day	Summary Report x	
Address: 15 Ocean Ave. 2nd FI	Name:	Name: s	SAME	11-28 31 Drive, LIC NY	RUSH-Next Day	QA Report ×	
	Company:	Company:		Purchase Order #	RUSH-Two Day	CT RCP	
Phone.: 718-636-0800	Address:	Address:			RUSH-Three Day	CT RCP DQA/DUE Pkg	
Contact: Paul I. Matli				52479	RUSH-Four Day	NY ASP A Package	
E-mail: E-mail: E-mail:	E-mail:	E-mail "	mwardhydrotechenvironmental.c	Samples from CT_NY_NJ_	Standard (5-7day)	NY ASP B Package	×
Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved. Samples will not begin until any questions by York are resolved. Matrix Codes Samples Collected/Authorized By (Signature) Sample Identification Sample Identification Name (printed) Name (printed) Sample Identification Name (printed) Name (printed) Air-A- ambient air Air-Sv- soil vapor Amatrix Amatrix Amatrix Analysis are resolved. WW- wastewater GW- groundwater DW- drinking water Air-A- ambient air Air-Sv- soil vapor X NWW-2 - 20200317 X NWW-4 - 20200317 X NWW-4 - 20200317 X NWW-4 - 20200317 DI	oy. All Information logged in and the til any questions by (Montal) Matertime Sampled 3/17/2020 x x x	Turn-around time York are resolved. Matrix Codes S - soil Other - specify(oil, 4cc) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor A X X X DI ON A A A A A A A A A A A A A	## 8260 full TICs ## 624 Site Spec. ## STARS list Nassau CC ## BTEX Suffolk CC ## MTBE Ketones TCL list Oxyganates ## CTRCP list TCLP list CT RCP list S24.2 ## Arom. only \$62.2 ## Arom. only \$62.2 ## Arom. only \$62.2 ## App.IX list SPLPOTC ## 8021B list ## App.IX list SPLPOTC ## App.IX list SPLPOT	8270 cr 625 8082PCB	RCRA8	Excel X	x x w vtion
Commonter		Preservation	Res Sun Rel Lux 4°C Frozen	A HOLL	1 4	NaOH	
Comments.		(check all appliciable)		ZnAc 21 Assorbic Acid	Š		T
x = same as before Compare to NYSDEC - 1.1.1 TOGS- GQS Samples collected via PDBs	- GQS	Special Instructions Field Filtered Lab to Filter	Samples Relinquished By UIL, e Jork	Date/Time	Samples Received By Blockley Samples Received in LAB	03/(8 >> G.(to on Red Date/Time 3/18/20/1826 3)	Temperature on Receipt

Attachment D Copy of DUSR



Geology

Hydrology

Remediation

Water Supply

April 7, 2020

Mr. Paul I. Matli, Ph.D. Hydro Tech Environmental 15 Ocean Ave., Suite 2B Brooklyn, NY 11225

Re:

Data Validation Report

March 2020 Ground Water Sampling Event

11-28 31st Drive, LIC, NY

Dear Dr. Matli:

The data usability summary report and data validation summary are attached to this letter for the above referenced project. The data for York Analytical Laboratories, Inc. SDG 20C0824 were acceptable with some minor issues that are identified in the validation summary. There were no data that were qualified as rejected, unusable (R) in the data pack.

We have attached lists of data validation acronyms and data qualifiers to assist you in the interpretation of the reviews. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Hydro Tech Environmental, Corp.

Sincerely,

Alpha Geoscience

Donald Anné Senior Chemist

DCA:dca attachments

Data Validation Acronyms

AA Atomic absorption, flame technique **BHC** Hexachlorocyclohexane **BFB** Bromofluorobenzene CCB Continuing calibration blank CCC Calibration check compound **CCV** Continuing calibration verification CN Cyanide CRDL Contract required detection limit Contract required quantitation limit **CRQL** CVAA Atomic adsorption, cold vapor technique **DCAA** 2,4-Dichlophenylacetic acid **DCB** Decachlorobiphenyl Decafluorotriphenyl phosphine **DFTPP ECD** Electron capture detector **FAA** Atomic absorption, furnace technique FID Flame ionization detector **FNP** 1-Fluoronaphthalene GC Gas chromatography GC/MS Gas chromatography/mass spectrometry **GPC** Gel permeation chromatography **ICB** Initial calibration blank Inductively coupled plasma-atomic emission spectrometer **ICP ICV** Initial calibration verification IDL Instrument detection limit IS Internal standard LCS Laboratory control sample Laboratory control sample/laboratory control sample duplicate LCS/LCSD **MSA** Method of standard additions MS/MSD Matrix spike/matrix spike duplicate PID Photo ionization detector **PCB** Polychlorinated biphenyl **PCDD** Polychlorinated dibenzodioxins **PCDF** Polychlorinated dibenzofurans QA Quality assurance QC Quality control RF Response factor **RPD** Relative percent difference **RRF** Relative response factor Relative response factor at concentration of the number following RRF(number) RT Retention time RRT Relative retention time SDG Sample delivery group **SPCC** System performance check compound TCX Tetrachloro-m-xylene %D Percent difference %R Percent recovery %RSD Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

Not detected. The associated number indicates the approximate sample U concentration necessary to be detected significantly greater than the level of the highest associated blank. Unreliable result; data is rejected or unusable. Analyte may or may not be present R in the sample. Supporting data or information is necessary to confirm the result. N Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts. Analyte is present. Reported value may be associated with a higher level of J uncertainty than is normally expected with the analytical method. Analyte is present. Reported value may be biased low and associated with a Jhigher level of uncertainty than is normally expected with the analytical method. Analyte is present. Reported value may be biased high andassociated with a J+higher level of uncertainty than is normally expected with the analytical method. Not detected, quantitation limit may be inaccurate or imprecise. UJ

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.



Geology

Hydrology

Remediation

Water Supply

Data Usability Summary Report for York Analytical Laboratories, Inc., SDG: 20C0824

4 Ground Water Samples and 1 Trip Blank Collected March 17, 2020

Prepared by: Donald Anné April 7, 2020

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appears legible and complete. The data pack contains the results of 4 ground water samples and 1 trip blank analyzed for volatiles only.

The overall performances of the analyses are acceptable. York Analytical Laboratories, Inc. did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

• The positive volatile results for tetrachloroethylene were qualified as "estimated" (J) in samples MW-2-20200317, MW-3-20200317, and MW-4-20200317 because the %D for tetrachloroethylene was above the allowable maximum in the associated continuing calibration.

All data are considered usable, with estimated (J) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

z:\projects\2015\15600 - 15620\15604-11-28 31 drive\2020\20c0824.dus.docx



Geology

Hydrology

Remediation

Water Supply

QA/QC Review of Method 8260C Volatiles Data for York Analytical Laboratories, Inc., SDG: 20C0824

4 Ground Water Samples and 1 Trip Blank Collected March 17, 2020

Prepared by: Donald Anné April 7, 2020

Holding Times: Samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

<u>Initial Calibration</u>: The average RRFs for applicable compounds were above the method minimums, as required.

The average RRF for trichloroethylene and tetrachloroethylene were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for applicable compounds were above the method minimums, as required. The %D for tetrachloroethylene was above the method maximum on 03-24-20 (V81749.D).

The RRF for trichloroethylene and tetrachloroethylene were above the allowable minimum (0.010), as required.

The %D for tetrachloroethylene was above the allowable maximum (25%) on 03-24-20 (V81749.D). Positive results for tetrachloroethylene should be considered estimated (J) in associated samples.

<u>Blanks</u>: The analyses of method and trip blanks reported trichloroethylene and tetrachloroethylene as not detected.

<u>Internal Standard Area Summary</u>: The internal standard areas and retention times were within control limits.

<u>Surrogate Recovery</u>: The surrogate recoveries were within control limits for the ground water samples and trip blank.

- Matrix Spike/Matrix Spike Duplicate: The relative percent differences for tetrachloroethylene and trichloroethylene were below the allowable maximum and percent recoveries were within QC limits for aqueous MS/MSD sample MW-1 (MS/MSD)-20200317.
- <u>Laboratory Control Sample</u>: The relative percent differences for trichloroethylene and tetrachloroethylene were below the allowable maximum and the percent recoveries were within QC limits for aqueous samples BC01436-BS1 and BC04136-BSD1.
- <u>Compound ID</u>: Checked compounds and surrogates were within GC quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.



HydroTech Environmental ENGINEERING AND GEOLOGY, DPC

NYC Office 15 Ocean Avenue, Suite 2B Brooklyn, New York 11225 T (718) 636-0800 ; F (718) 636-0900 Long Island Office 77 Arkay Drive, Suite K Hauppauge, New York 11788 T (631) 462-5866; F (631) 462-5877

WWW.HYDROTECHENVIRONMENTAL.COM

August 31, 2020

Ms. Sondra Martinkat New York State Department of Environmental Conservation 47-40 21st Street Long Island City, NY 11101-5407

Re: Quarterly Status Report # 4 - March to May 2020 (Extended to July 2020)

11-28 31st Drive, Queens, NY NYSBCP Site #C241159

Dear Ms. Martinkat:

This report is intended to serve as a Quarterly Status Report (QSR), covering the period from March 2020 through May 2020 for the above-referenced New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site number C241159. Due to impacts of COVID-19 and in accordance with NYS Governor's Executive Order 202.6, subsequent orders and New York City Department of Buildings (NYCDOB) Guidance on enforcement of Essential vs. Nonessential businesses, the May 2020 quarterly sampling was delayed until July 2020.

The scope of work presented in this report is based upon the NYSDEC-approved Site Management Plan (SMP) dated November 2018 and was performed on behalf of the property owner, GBT Real Estate, LLC. The scope of work is a continuation of the quarterly monitoring and sampling of five existing monitoring wells and the quarterly monitoring of the active Sub-Slab Depressurization System (SSDS) following the submission of a Periodic Review Report for this Site dated May 30, 2020.

Groundwater Monitoring and Sampling

In accordance with the NYSDEC-approved SMP, the five monitoring wells MW-1 to MW-4 and MW-6 have been gauged on a quarterly basis for the presence of free product and also to determine the depth to groundwater. The location of monitoring wells is shown in **Figure 1**. The groundwater monitoring and sampling for the quarterly period covered in this report was performed during July 2020 instead of May 2020 due to COVID-19.

The monitoring well gauging was performed on July 15, 2020 utilizing a Solinst 122 Oil/Water Interface Probe. During this event, access to monitoring well MW-6 continued to be obstructed by a locked construction fence erected around a vacant property located to the north of the Site. None of the four gauged monitoring wells were found to contain free product. The depth to water during this monitoring event ranged from 9.32 feet in MW-4 to 11.55 feet in MW-1. This depth to water in these wells represents a general decrease by an average 0.34 feet since the last event during February 2020.



Table 1 provides the groundwater monitoring and elevation data for the period covered by this report and historical monitoring data. **Attachment A** provides the well monitoring sheet.

Utilizing historical monitoring well casing elevations and the depth to water, the groundwater elevation in the wells were then determined. The groundwater elevations indicate the groundwater flow direction beneath the Site continues to be toward the southwest, consistent with the historic flow directions mapped for this Site. **Figure 2** provides a contour map of groundwater flow direction during July 2020.

Passive Diffusion Bag (PDB) samplers for the groundwater sampling were then placed inside each of the four the monitoring wells MW-1 to MW-4 following well gauging. The PDBs were left inside the wells for the duration of 16 days and were recovered on July 31, 2020.

The groundwater samples were placed in laboratory-supplied containers and secured in a cooler filled with ice and maintained at a maximum 4 degrees Celsius. The samples were transmitted under proper chain of custody procedures to a State-certified (ELAP) laboratory and analyzed for tetrachloroethylene (PCE) and trichloroethylene (TCE) in accordance with EPA Method 8260.

Investigatory-derived waste (IDW) consisting of excess liquid generated during the sampling from of PDBs were placed into a 55-gallon drum. The drum was disposed of in accordance with DER-10 Technical Guidance for Site Investigation and Remediation (May 2010). **Attachment B** provides a copy of the final disposal manifest.

Laboratory analytical results for PCE and TCE in groundwater samples are provided in **Table 2**. **Table 2** also provides the PCE and TCE concentrations over time and a comparison to NYSDEC 6NYCRR Part 703.5 Class groundwater Quality Standards (GQS). **Attachment C** provides a copy of the laboratory analytical report.

As **Table 2** indicates, PCE was detected in MW-2 at a concentration of $10 \,\mu g/L$, which exceeds its GQS of $5 \,\mu g/L$. This PCE concentration in MW-2 represents a slight increase from $6.77 \,\mu g/L$ detected during March 2020. PCE was also detected in MW-3 and MW-4 at concentrations that are below its GQS and they represent a reduction by approximately 64% since March 2020. PCE continues to be undetected in MW-1. TCE was only detected in MW-2 at a concentration less than GQS of $5 \,\mu g/L$. TCE continues to be undetected in MW-1, MW-3 or MW-4.

These findings in this report are consistent with the historic groundwater sampling performed at the Site, which reflects a continued reduction in PCE and TCE since 2018 as a result of natural degradation.

The groundwater data was submitted electronically to the NYSDEC through the Environmental Information Management System using the NYSDEC standardized Electronic Data Deliverable (EDD) format. A Data Usability Summary Report (DUSR) was also prepared for the analytical results by an independent data reviewer, Mr. Donald Anne of Alpha Geoscience in Clifton Park,



NY. The DUSR indicates the data is acceptable and is considered usable. A copy of the DUSR is provided in **Attachment D**.

Active Sub-Slab Depressurization System

The active SSDS has been monitored on a quarterly basis. For the period covered in this report, the monitoring of SSDS was performed alongside the gauging of monitoring wells on July 15, 2020. During this monitoring event, a HydroTech Qualified Environmental Professional inspected the system for proper functioning in accordance with the SSDS Operation and Maintenance Plan in the SMP. **Figure 3** provides the location of the vacuum monitoring points associated with the SSDS.

Table 3 provides the SSDS Monitoring Data collected during July 2020. The SSDS vacuum observed at the inline Dwyer Magnehelic dial type vacuum gauge continues to record -0.74 inches H_2O . The effluent of the SSDS was monitored with a Photoionization Detector (PID); no organic vapors were detected. The radius of influence of the SSDS was monitored by measuring the vacuum at the three permanent sub-slab vacuum monitoring points VMP-1 to VMP-3.

The vacuum at the vacuum monitoring points VMP-1 to VMP-3 was measured using Model 8710 DP-CalcTM Micromanometer, which measures differential pressure in inches H_2O . Differential pressure readings obtained at the three vacuum monitoring points indicate a vacuum ranging between -0.03 and -0.06 inches H_2O beneath the building slab. Although this level of negative pressure shows a minor improvement since the previous monitoring in March 2020, it remains consistent with historic monitoring data reported since November 2019 and reflects a satisfactory sub-slab vacuum communication for soil vapor intrusion mitigation beneath the building.

The groundwater sampling and SSDS monitoring will continue on a quarterly basis in accordance with the NYSDEC-approved SMP. The next quarterly groundwater sampling and SSDS monitoring event is scheduled for October 2020.

Should you have any questions, please feel free to contact our office at your convenience.

Very Truly Yours,

HydroTech Environmental Engineering and Geology, DPC

Paul I. Matli, PhD, PG Senior Project Manager

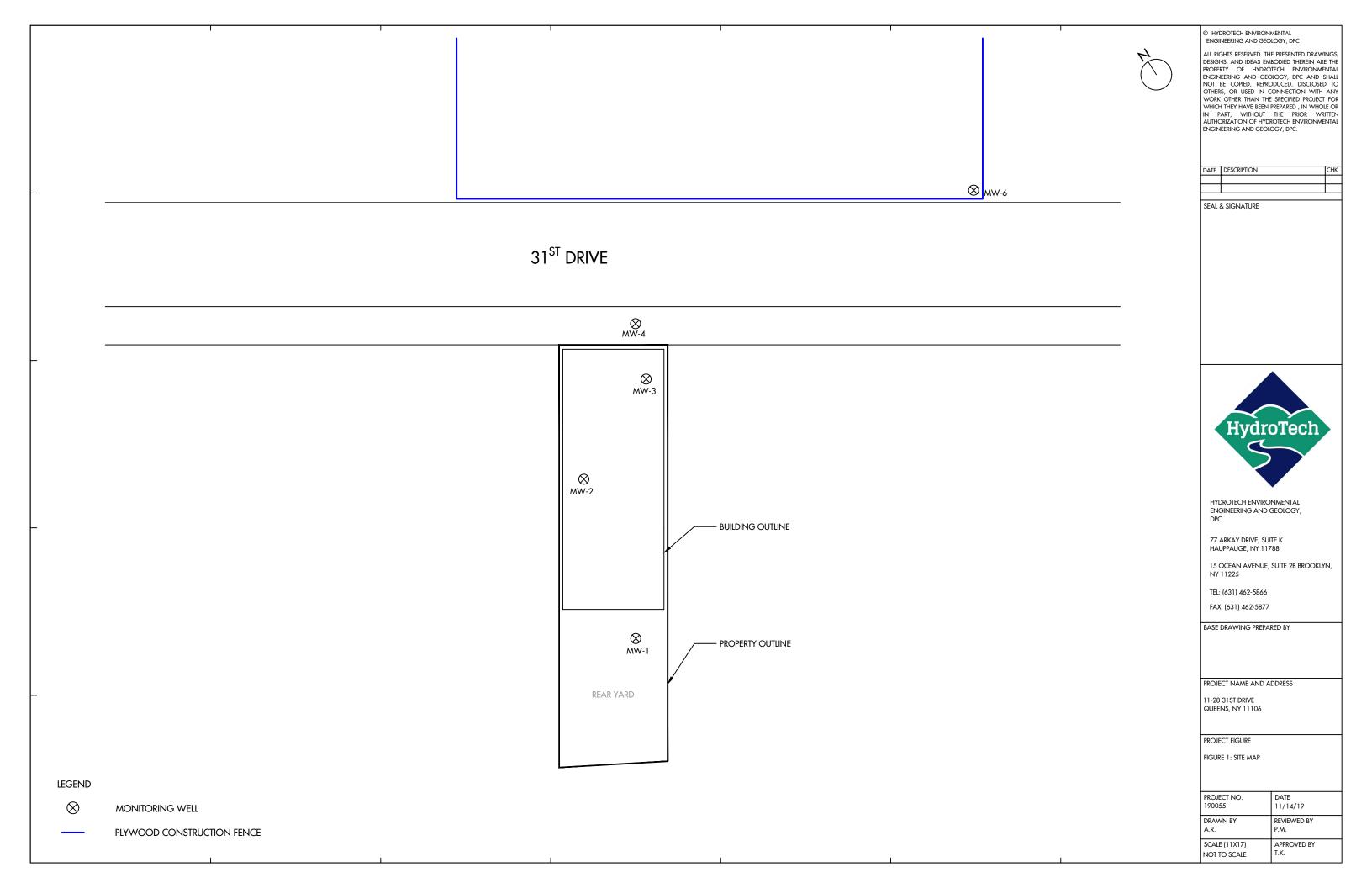
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cc: Mr. George Man – GBT Real Estate LLC (by email) w/ Enc. HydroTech file 190055 w/ Enc.

Figures





⊗ MW-6



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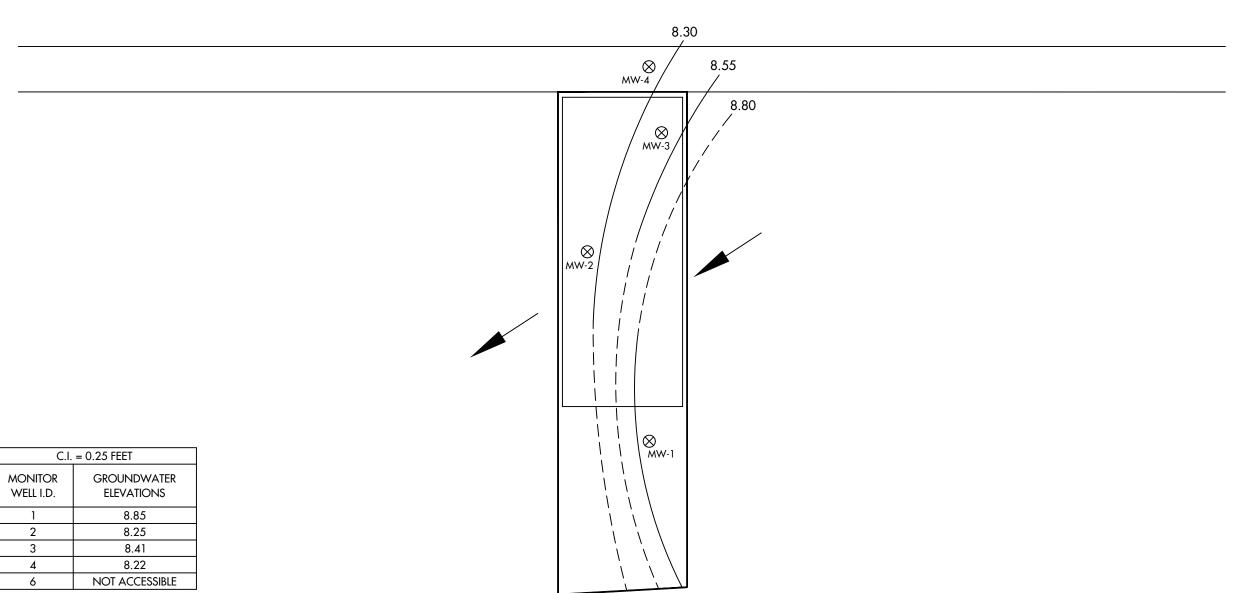
11-28 31ST DRIVE QUEENS, NY 11106

PROJECT FIGURE

FIGURE 2: GROUNDWATER FLOW CONTOUR MAP - JULY 2020

PROJECT NO. 190055	DATE 8/11/20
DRAWN BY A.R.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY T.K.

31ST DRIVE



LEGEND

NOTE: DASHED LINE WHERE CONTOUR IS INFERRED



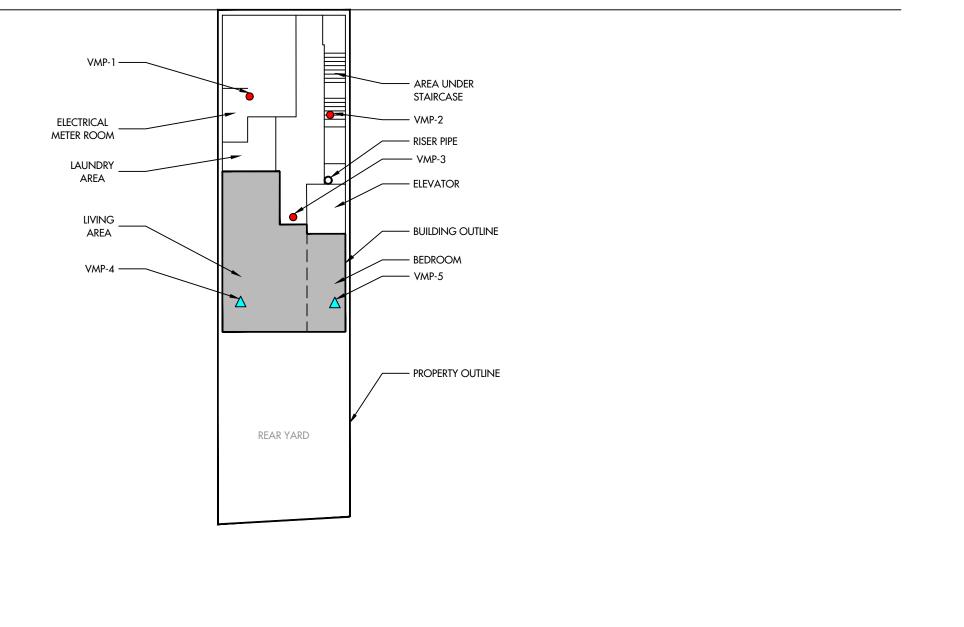


LEGEND

PERMANENT VACUUM MONITORING POINTS

TEMPORARY VACUUM MONITORING POINTS (DECOMMISSIONED AFTER SSDS STARTUP)

RESIDENTIAL UNIT



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PROJECT NAME AND ADDRESS

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PROJECT FIGURE

FIGURE 3: VACUUM MONITORING POINTS MAP

PROJECT NO. 190055	DATE 11/14/19
DRAWN BY A.R.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY T.K.

Tables

Table 1 Groundwater Monitoring Results Over Time 11-28 31st Drive, Queens, NY

== ====================================													
Well ID		August 2019				Novem	ber 2019		March 2020 July 2020			2020	
	Casing Elevation	DTP	DTW	Water Table Elevation	DTP	DTW	Water Table Elevation	DTP	DTW	Water Table Elevation	DTP	DTW	Water Table Elevation
MW-1	12.7	ND	11.08	8.38	ND	11.23	8.53	ND	11.4	8.7	ND	11.55	8.85
MW-2	12.7	ND	11.01	8.31	ND	11.15	8.45	ND	10.78	8.08	ND	10.95	8.25
MW-3	11.51	ND	9.96	8.45	ND	10.1	8.59	ND	11.23	9.72	ND	9.92	8.41
MW-4	11.10	ND	9.44	8.34	ND	9.60	8.50	ND	9.71	8.61	ND	9.32	8.22
MW-6	9.47	ND	9.97	10.5	ND	10.15	10.68	ND	NA	NA	ND	NA	NA

All values reported in feet.

DTW...Depth to Water from top of casing

DTP...Depth to Product from top of casing

ND...None Detected

NA...Not Accessible

Water Table elevations adjusted by a site benchmarck elevation of 10 feet

Tabel 2 Groundwater Samples Analytical Results for PCE and TCE _ Over Time 11-28 31st Drive, Queens, NY

	11-20 51 Drive, Queens, N1											
Sampling Date	MW-1		MW-2		M	W-3	MV	V-4	M	W-6	Trip 1	Blank
Sampling Date	PCE	TCE	TCE	PCE	PCE	TCE	TCE	PCE	PCE	TCE	PCE	TCE
1/13/2015	0.2 U	0.2	3.03	0.2 U	20.83	0.52	3,799.8	17	85.83	8.90	0.2 U	0.2 U
2/19/2018	0.28 J	0.2 U	25	0.4 J	4.10	0.2 U	70	0.66	75	15	0.2 U	0.2 U
7/24/2018	0.2 U	0.2 U	20	0.63	1.20	0.2 U	13	0.43 J	43	0.46 J	0.2 U	0.2 U
11/20/2018	0.2 U	0.2 U	11.60	0.68	0.22	0.2 U	2.28	0.2 U	28.4	0.48 J	0.2 U	0.2 U
8/30/2019	0.2 U	0.2 U	20.1	1.21	0.92	0.2 U	2.87	0.2 U	49.6	0.42 DJ	0.2 U	0.2 U
12/10/2019	0.2 U	0.2 U	21.90	1.35	1.27	0.2 U	1.75	0.2 U	NA		0.2 U	0.2 U
3/17/2020	0.2 U	0.2 U	6.77	0.52	1.50	0.2 U	6.70	0.2 U	NA		0.2 U	0.2 U
7/31/2020	0.2 U	0.2 U	10	0.90	0.54	0.2 U	2.36	0.2 U	1	NA	0.2 U	0.2 U

NOTES:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated U=analyte not detected at or above the level indicated

NS=this indicates that no regulatory limit has been established for this analyte

Shaded concentration exceeds GQS of PCE or TCE of 5 μ g/L

GQS=NYSDEC TOGS Standards and Guidance Values - GA

PCE=Tetrachloroethylene

TCE=Trichloroethylene

1/13/2015=Sampling performed during the Remedial Investigation

2/19/2018=Baseline sampling performed prior to ISCO Injection Program

7/24/2018= Sampling performed 2 months post-ISCO injections

11/20/2018=Quaretrly sampling performed 5 months post-ISCO injections

8/30/2019 to July/31/2020=Quartely sampling performed 15 months post-ISCO Injections to-date

NA= Not sampled due to limited access

Table 3
SSDS Monitoring Data Log Sheet Over Time

11-28 31 Drive ,Queens, New York, NYSDEC Site Number: C241159

		c	SDS Efflu	iont	Vaccum Monitoring Points						
Date/Time	SSDS Vacuum	3.		ieiii	VMP-1	VMP-2	VMP-3	VMP-4	VMP-5		
		PID	Flow	Temp		-	Vacuum	1			
9/9/2019	-0.74	0.2	518	76.46	-0.031	-0.040	-0.041	-0.036	-0.039		
10/15/2019	-0.74	NA	NA	NA	-0.030	-0.036	-0.042	-0.036	-0.038		
12/10/2019	-0.74	0.1	470.8	62.2	-0.024	-0.032	-0.034	D	D		
3/2/2020	-0.74	0.1	440.1	65.5	-0.023	-0.035	-0.033	D	D		
7/15/2020	-0.74	0.3	503.7	78.0	-0.030	-0.040	-0.060	D	D		

Vacuum --- Inch Water Flow

PID --- ppm

Flow --- CFM

Temperature --- °F

NA---Not measured

D---Decommissioned

Attachments

Attachment A Well Monitoring Sheet



WELL MONITORING LOG SHEET

Project Name	11-28 31st Drive		Date	7-15-2020
Client	Mr. George Man		Instrument	
Site Location	11-28 31st Drive, LIC	NY	BCP Site #	# C241159
Monitoring Schedule	Monthly :	Quartely : _x	Bi-Annually :_	
S = Snow D DTW = Depth to W	= Dry G = Gor Vater DTP = Depth			a = Not Accessible ND = None Detected
Monitoring	Well <u>D.T.P.</u>	D.T.W.		
MW-1 MW-2	ND ND	1.56		
MW-3 MW-4	ND ND	9.92		
MW-6	NA	NA		
Notes: All meas Notes:	surements in feet, belov	-	of well casing	
	All measurements ar	e reported in feet		
Reported By:				
Ruijie Xu				

Attachment B Drum Disposal Manifest

Attachment C Laboratory Analytical Report



Technical Report

prepared for:

Hydro Tech Environmental (Brooklyn)

15 Ocean Avenue, Suite 2B
Brooklyn NY, 11225
Attention: Paul Matli

Report Date: 08/06/2020

Client Project ID: 190055 11-28 31st Drive LIC

York Project (SDG) No.: 20G1207

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

Report Date: 08/06/2020

Client Project ID: 190055 11-28 31st Drive LIC

York Project (SDG) No.: 20G1207

Hydro Tech Environmental (Brooklyn)

15 Ocean Avenue, Suite 2B Brooklyn NY, 11225 Attention: Paul Matli

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 31, 2020 and listed below. The project was identified as your project: 190055 11-28 31st Drive LIC.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
20G1207-01	MW-1-20200731	Water	07/31/2020	07/31/2020
20G1207-02	MW-2-20200731	Water	07/31/2020	07/31/2020
20G1207-03	MW-3-20200731	Water	07/31/2020	07/31/2020
20G1207-04	MW-4-20200731	Water	07/31/2020	07/31/2020
20G1207-05	Trip Blank-20200731	Water	07/31/2020	07/31/2020

General Notes for York Project (SDG) No.: 20G1207

- 1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
- 2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
- 3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
- 4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
- 5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
- 6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
- 7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Benjamin Gulizia Laboratory Director **Date:** 08/06/2020



<u>Client Sample ID:</u> MW-1-20200731 <u>York Sample ID:</u> 20G1207-01

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received20G1207190055 11-28 31st Drive LICWaterJuly 31, 2020 9:30 am07/31/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS N	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	07/31/2020 11:08 ELAC-NY10854,NEL/	08/01/2020 08:16 AC-NY12058,NJDEP	TMP PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	07/31/2020 11:08 ELAC-NY10854,NEL	08/01/2020 08:16 AC-NY12058,NJDEP	TMP PADEP
	Surrogate Recoveries	Result		Acce	ptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	96.2 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	111 %			79-122							

Sample Information

<u>Client Sample ID:</u> <u>MW-2-20200731</u> <u>York Sample ID:</u> 20G1207-02

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received20G1207190055 11-28 31st Drive LICWaterJuly 31, 2020 9:35 am07/31/2020

Volatile Organics, 8260 - TCE/PCE

Sample Prepared by Method: EPA 5030B

Log-in Notes:	Sample Notes	:

Sample 1 repare	ta by Method. LIA 3030B											
CAS No	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	10.0		ug/L	0.200	0.500	1	EPA 8260C		07/31/2020 11:08	08/01/2020 08:41	TMP
								Certifications:	CTDOH,N	IELAC-NY10854,NEL	AC-NY12058,NJDE	P,PADEP
79-01-6	Trichloroethylene	0.900		ug/L	0.200	0.500	1	EPA 8260C		07/31/2020 11:08	08/01/2020 08:41	TMP
								Certifications:	CTDOH,N	IELAC-NY10854,NEL	AC-NY12058,NJDE	P,PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	95.8 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	109 %			79-122							

Sample Information

Client Sample ID:	MW-3-20200731	York Sample ID:	20G1207-03

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received20G1207190055 11-28 31st Drive LICWaterJuly 31, 2020 9:40 am07/31/2020

120 RESEARCH DRIVE STRATFORD, CT 06615

132-02 89th AVENUE RICHMOND HILL, NY 11418

www.YORKLAB.com (203) 325-1371

FAX (203) 357-0166

ClientServices@ Page 4 of 12



Client Sample ID: MW-3-20200731

York Sample ID: 20G1207-03

York Project (SDG) No. 20G1207 Client Project ID
190055 11-28 31st Drive LIC

Matrix Water Collection Date/Time
July 31, 2020 9:40 am

Date Received

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

07/31/2020

Sample Prepared	by Method: I	EPA 5030B

CAS No	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference M	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	0.540		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,N	07/31/2020 11:08 ELAC-NY10854,NEL	08/01/2020 09:06 AC-NY12058,NJDEF	TMP P,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	07/31/2020 11:08 ELAC-NY10854,NEL/	08/01/2020 09:06 AC-NY12058,NJDEP,	TMP PADEP
	Surrogate Recoveries	Result		Acce	eptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	95.8 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	113 %			79-122							

Sample Information

Client Sample ID: M

MW-4-20200731

York Sample ID:

20G1207-04

York Project (SDG) No. 20G1207

<u>Client Project ID</u> 190055 11-28 31st Drive LIC Matrix Water Collection Date/Time
July 31, 2020 9:45 am

Date Received 07/31/2020

Volatile Organics, 8260 - TCE/PCE

Sample Prepared by Method: EPA 5030B

Sample Notes:

CAS No	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference M	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	2.36		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,N	07/31/2020 11:08 IELAC-NY10854,NEI	08/01/2020 09:31 AC-NY12058,NJDE	TMP P,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	07/31/2020 11:08 ELAC-NY10854,NEL	08/01/2020 09:31 AC-NY12058,NJDEF	TMP P,PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	96.0 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	114%			79-122							

Sample Information

Client Sample ID: Trip Blank-20200731

York Sample ID:

20G1207-05

York Project (SDG) No. 20G1207

Client Project ID
190055 11-28 31st Drive LIC

Matrix Water Collection Date/Time
July 31, 2020 12:00 am

Date Received 07/31/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

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Client Sample ID: Trip Blank-20200731

York Sample ID: 20G1207-05

<u>York Project (SDG) No.</u> <u>Client Project ID</u> 20G1207 190055 11-28 31st Drive LIC MatrixCollection Date/TimeWaterJuly 31, 2020 12:00 am

Date Received 07/31/2020

Sample Prepared by Method: EPA 5030B

CAS No	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference M	1ethod	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NE	08/05/2020 06:00 LAC-NY10854,NELA	08/05/2020 15:25 AC-NY12058,NJDEP	TMP PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: C	CTDOH,NE	08/05/2020 06:00 LAC-NY10854,NEL	08/05/2020 15:25 AC-NY12058,NJDEP	TMP PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	96.1 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	112 %			79-122							



Analytical Batch Summary

Batch ID: BH00207	Preparation Method:	EPA 5030B	Prepared By:	SG
YORK Sample ID	Client Sample ID	Preparation Date		
20G1207-01	MW-1-20200731	07/31/20		
20G1207-02	MW-2-20200731	07/31/20		
20G1207-03	MW-3-20200731	07/31/20		
20G1207-04	MW-4-20200731	07/31/20		
BH00207-BLK1	Blank	07/31/20		
BH00207-BS1	LCS	07/31/20		
BH00207-BSD1	LCS Dup	07/31/20		
BH00207-MS1	Matrix Spike	07/31/20		
BH00207-MSD1	Matrix Spike Dup	07/31/20		
Batch ID: BH00260	Preparation Method:	EPA 5030B	Prepared By:	TMP
YORK Sample ID	Client Sample ID	Preparation Date		
20G1207-05	Trip Blank-20200731	08/05/20		
BH00260-BLK1	Blank	08/05/20		
BH00260-BS1	LCS	08/05/20		
BH00260-BSD1	LCS Dup	08/05/20		



Volatile Organic Compounds by GC/MS - Quality Control Data York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BH00207 - EPA 5030B											
Blank (BH00207-BLK1)							Prep	ared: 07/31/	2020 Analyz	ed: 08/01/2	2020
Tetrachloroethylene	ND	0.500	ug/L								
Trichloroethylene	ND	0.500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.5		"	10.0		105	69-130				
Surrogate: SURR: Toluene-d8	9.65		"	10.0		96.5	81-117				
Surrogate: SURR: p-Bromofluorobenzene	11.1		"	10.0		111	79-122				
LCS (BH00207-BS1)							Prep	ared: 07/31/	2020 Analyz	ed: 08/01/2	2020
Tetrachloroethylene	9.91		ug/L	10.0		99.1	82-131				
Trichloroethylene	9.83		"	10.0		98.3	82-128				
Surrogate: SURR: 1,2-Dichloroethane-d4	10.4		"	10.0		104	69-130				
Surrogate: SURR: Toluene-d8	9.64		"	10.0		96.4	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.8		"	10.0		108	79-122				
LCS Dup (BH00207-BSD1)							Prep	ared: 07/31/	2020 Analyz	ed: 08/01/2	2020
Tetrachloroethylene	9.99		ug/L	10.0		99.9	82-131		0.804	30	
Γrichloroethylene	9.83		"	10.0		98.3	82-128		0.00	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.3		"	10.0		103	69-130				
Surrogate: SURR: Toluene-d8	9.64		"	10.0		96.4	81-117				
Surrogate: SURR: p-Bromofluorobenzene	11.1		"	10.0		111	79-122				
Matrix Spike (BH00207-MS1)	*Source sample: 2	0G1207-01 (M	W-1-20200	0731)			Prep	ared: 07/31/	2020 Analyz	ed: 08/01/2	2020
Tetrachloroethylene	9.54		ug/L	10.0	0.00	95.4	64-139				
Γrichloroethylene	10.1		"	10.0	0.00	101	53-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	10.6		"	10.0		106	69-130				
Surrogate: SURR: Toluene-d8	9.62		"	10.0		96.2	81-117				
Surrogate: SURR: p-Bromofluorobenzene	11.1		"	10.0		111	79-122				
Matrix Spike Dup (BH00207-MSD1)	*Source sample: 2	0G1207-01 (M	W-1-20200	0731)			Prep	ared: 07/31/	2020 Analyz	ed: 08/01/2	2020
Tetrachloroethylene	9.42		ug/L	10.0	0.00	94.2	64-139		1.27	30	
Trichloroethylene	9.90		"	10.0	0.00	99.0	53-145		2.40	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.5		"	10.0		105	69-130				
Surrogate: SURR: Toluene-d8	9.51		"	10.0		95.1	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.8		"	10.0		108	79-122				

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$\label{lem:compounds} \textbf{Volatile Organic Compounds by GC/MS-Quality Control Data}$

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH00260 - EPA 5030B											
Blank (BH00260-BLK1)							Prepa	ared & Analy	yzed: 08/05/	2020	
Tetrachloroethylene	ND	0.500	ug/L								
Trichloroethylene	ND	0.500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.4		"	10.0		104	69-130				
Surrogate: SURR: Toluene-d8	9.63		"	10.0		96.3	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.7		"	10.0		107	79-122				
LCS (BH00260-BS1)							Prepa	ared & Analy	yzed: 08/05/	2020	
Tetrachloroethylene	8.51		ug/L	10.0		85.1	82-131				
Trichloroethylene	8.57		"	10.0		85.7	82-128				
Surrogate: SURR: 1,2-Dichloroethane-d4	10.3		"	10.0		103	69-130				
Surrogate: SURR: Toluene-d8	9.56		"	10.0		95.6	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.5		"	10.0		105	79-122				
LCS Dup (BH00260-BSD1)							Prepa	ared & Analy	yzed: 08/05/	2020	
Tetrachloroethylene	8.58		ug/L	10.0		85.8	82-131		0.819	30	
Trichloroethylene	8.31		"	10.0		83.1	82-128		3.08	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.2		"	10.0		102	69-130				
Surrogate: SURR: Toluene-d8	9.56		"	10.0		95.6	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.8		"	10.0		108	79-122				

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20G1207-01	MW-1-20200731	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1207-02	MW-2-20200731	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1207-03	MW-3-20200731	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1207-04	MW-4-20200731	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1207-05	Trip Blank-20200731	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOO LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably

detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA

600 and 200 series methods.

This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located Reported to above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and

semi-volatile target compounds only.

Not reported NR

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias

conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take

note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias

conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high

due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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704/207	Page of	Turn-Around Time	RUSH - Next Day	RUSH - Two Day RUSH - Three Day	RUSH - Four Day	Standard (5-7 Day)	А	YORK Reg. Comp.	Regulation(s): (please fill in)	MYSDEC [.1.1			Container Description	9x 40ml wals	3x 40ml wals	-	>	2x 40ml vials		Lab to Filter	17:36p 73	Date: I line	Date/Time Temp. Received at Lab
Field Chain-of-Custody Record	d on the back side of this document. proceed with the analyses requested below. and Terms & Conditions.	pe	Mores - 4-28 Al Drive, UC	YOUR Project Name	>		WARNEDON: 52505	Report / EDD Type (circle selections)		ш	1	NJDKQP Other:	Analysis Requested	E WA EPA SHOUL	-			\	Preservation: (check all that apply) HNO3 H2SO4 NaOH ZnAc	Other: Samples Relinquished by / Company	1	Samples received by 1 Company	Samples Received in LAB by DaterTime
Chain-of-Cus	NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.	Invoice To:	Gudentech	2) Arkay Orice, Suite K, Hauppang NT (17)	631-964-5Hb	Anna, Marta Guerieri.	E-mail:	(Samples Front) Repor	\		Connecticut NY ASP A Package Pennsylvania NY ASP B Package		Date/Time Sampled	TAIDOGRAD DOE & TCE	@436	@4:40	(20 45	-	동	Ascorbic Acid Ot	JULIED 17 12009:50	Date: I'me	DateTine
Field	NOTE: This document se		Company:	Address:	Phone	Contact	E-mail:	Matrix Codes San		_	DW - drinking water Conn	O - Oil Other	Sample Matrix Date/	181 MB	_		>	V NATAN IQ		Sample-Received by / Company	g Bealled	Samples Relinquished by / Company	Samples Received by / Company
York Analytical Laboratories, Inc. 120 Research Drive 132-02 89th Ave Stratford, CT 06615 Queens, NY 11418	clientservices@yorklab.com www.yorklab.com	Report To:	Company:	Address: 1	Phone.:	Contact	E-mail:	ust be complete. Samples ock will not begin until any		N. Salara	ibove and sign below)		on	131					wa PDBs.	Postsoffine	7/4/2009	Date/Time	Date/Time
York Analytical 120 Research Drive Stratford, CT 06615	YORK clientservice:	YOUR Information	Company Hadro Tech	HE Ocean Ave, I'M A. Brooklyn	9		E-mail:	Please blint clearly and Tegibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any	questions by YORK are resolved.	Rullie Mu	Samples Collected by: (print your name above and sign below)	3	Sample Identification	8[00205 - (ASMISM) HMM	16/00205- 5-WM	MW-3-20200781	WW-4-20200]31		Somples are collected it		Samples Reinquished by / Company Management of the company Management of the company Samples Reinquished by / Company	Samples Received by / Company Company Company	Samples Relinquished by / Company 1.5

Attachment D Copy of DUSR



Geology

Hydrology

Remediation

Water Supply

August 18, 2020

Mr. Paul I. Matli, Ph.D., P.G. Hydro Tech Environmental 77 Arkay Drive, Suite K Hauppauge, NY 11787

Re: Data Validation Report

July 2020 Ground Water Sampling Event

11-28 31st Drive, LIC, NY

Dear Dr. Matli:

The data usability summary report and data validation summary are attached to this letter for the above referenced project. The data for York Analytical Laboratories, Inc. SDG 20G1207 were acceptable with some minor issues that are identified in the validation summary. There were no data that were qualified as rejected, unusable (R) in the data pack.

We have attached lists of data validation acronyms and data qualifiers to assist you in the interpretation of the reviews. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Hydro Tech Environmental, Corp.

Sincerely,

Bonald S

Alpha Geoscience

Donald Anné Senior Chemist

DCA:dca attachments

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Data Usability Summary Report for York Analytical Laboratories, Inc., SDG: 20G1207

4 Ground Water Samples and 1 Trip Blank Collected July 31, 2020

Prepared by: Donald Anné August 18, 2020

Geology
Hydrology
Remediation
Water Supply

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appears legible and complete. The data pack contains the results of 4 ground water samples and 1 trip blank analyzed for volatiles only.

The overall performances of the analyses are acceptable. York Analytical Laboratories, Inc. did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- The positive volatile results for tetrachloroethylene were qualified as "estimated" (J) in samples MW-2-20200731, MW-3-20200731, and MW-4-20200731 because the %D for tetrachloroethylene was above the allowable maximum in the associated continuing calibration.
- The positive volatile result for trichloroethylene was qualified as "estimated" (J) in sample MW-2-20200731 because the %D for tetrachloroethylene was above the allowable maximum in the associated continuing calibration.

All data are considered usable, with estimated (J) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

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Geology

Hydrology

Remediation

Water Supply

QA/QC Review of Method 8260C Volatiles Data for York Analytical Laboratories, Inc., SDG: 20G1207

4 Ground Water Samples and 1 Trip Blank Collected July 31, 2020

Prepared by: Donald Anné August 18, 2020

Holding Times: Samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

<u>Initial Calibration</u>: The average RRFs for applicable compounds were above the method minimums, as required.

The average RRF for trichloroethylene and tetrachloroethylene were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

<u>Continuing Calibration</u>: The RRFs for applicable compounds were above the method minimums, as required.

The RRF for trichloroethylene and tetrachloroethylene were above the allowable minimum (0.010), as required.

The %Ds for tetrachloroethylene and trichloroethylene were above the allowable maximum (25%) on 08-01-20 (QV620450.D). Positive results for tetrachloroethylene and trichloroethylene should be considered estimated (J) in associated samples.

<u>Blanks</u>: The analyses of method and trip blanks reported trichloroethylene and tetrachloroethylene as not detected.

<u>Internal Standard Area Summary</u>: The internal standard areas and retention times were within control limits.

<u>Surrogate Recovery</u>: The surrogate recoveries were within control limits for the ground water samples and trip blank.

SDG: 20G1207

- Matrix Spike/Matrix Spike Duplicate: The relative percent differences for tetrachloroethylene and trichloroethylene were below the allowable maximum and percent recoveries were within QC limits for aqueous MS/MSD sample MW-1-20200731.
- <u>Laboratory Control Sample</u>: The relative percent differences for trichloroethylene and tetrachloroethylene were below the allowable maximum and the percent recoveries were within QC limits for aqueous samples BH00207-BS1, BH00207-BSD1, BH00260-BS1, and BH00260-BSD1.
- <u>Compound ID</u>: Checked compounds and surrogates were within GC quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

Data Validation Acronyms

AA Atomic absorption, flame technique

BHC Hexachlorocyclohexane BFB Bromofluorobenzene

CCB Continuing calibration blank
CCC Calibration check compound
CCV Continuing calibration verification

CN Cyanide

CRDL Contract required detection limit
CRQL Contract required quantitation limit
CVAA Atomic adsorption, cold vapor technique

DCAA 2,4-Dichlophenylacetic acid

DCB Decachlorobiphenyl

DFTPP Decafluorotriphenyl phosphine ECD Electron capture detector

FAA Atomic absorption, furnace technique

FID Flame ionization detector FNP 1-Fluoronaphthalene GC Gas chromatography

GC/MS Gas chromatography/mass spectrometry

GPC Gel permeation chromatography

ICB Initial calibration blank

ICP Inductively coupled plasma-atomic emission spectrometer

ICV Initial calibration verification IDL Instrument detection limit

IS Internal standard

LCS Laboratory control sample

LCS/LCSD Laboratory control sample/laboratory control sample duplicate

MSA Method of standard additions
MS/MSD Matrix spike/matrix spike duplicate

PID Photo ionization detector
PCB Polychlorinated biphenyl
PCDD Polychlorinated dibenzodioxins
PCDF Polychlorinated dibenzofurans

QA Quality assurance QC Quality control RF Response factor

RPD Relative percent difference RRF Relative response factor

RRF(number) Relative response factor at concentration of the number following

RT Retention time

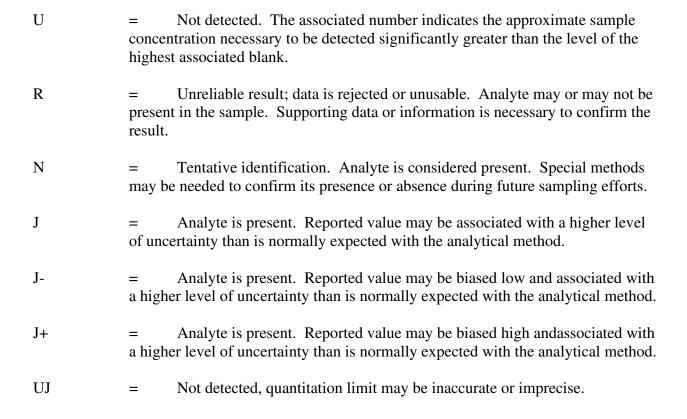
RRT Relative retention time SDG Sample delivery group

SPCC System performance check compound

TCX Tetrachloro-m-xylene %D Percent difference %R Percent recovery

%RSD Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II



Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20G1207

Client: <u>Hydro Tech Environmental (Brooklyn)</u> Project: <u>190055 11-28 31st Drive LIC</u>

Instrument ID: QVOA9 Calibration: YF00023

Lab File ID: QV620450.D Calibration Date: 06/26/20 10:36

Sequence: $\underline{Y0H0532}$ Injection Date: $\underline{08/01/20}$

Lab Sample ID: Y0H0532-CCV1 Injection Time: 02:21

		CONC	. (ug/L)	RESI	RESPONSE FACTOR			/ DRIFT
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethylene	A	10.0	9.78	0.2267893	0.3985762	0.2	(75.7)	20 *
Trichloroethylene	A	10.0	8.87	0.238664	0.3529542	0.2	47.9	20 *

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits



MW-1-20200731 **Client Sample ID:**

York Sample ID:

20G1207-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G1207

190055 11-28 31st Drive LIC

Water

July 31, 2020 9:30 am

07/31/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

CAS No.	. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1 Certification	EPA 8260C ns: CTDOH,NELAC-NY1	07/31/2020 11:08 0854,NELAC-NY120	08/01/2020 08:16 58,NJDEP,PADEP	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1 Certification	EPA 8260C ns: CTDOH,NELAC-NY1	07/31/2020 11:08 0854,NELAC-NY120	08/01/2020 08:16 58,NJDEP,PADEP	TMP
	Surrogate Recoveries	Result		Acce	ptance Rang	e					
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	96.2 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	111 %			79-122						

Sample Information

Client Sample ID:

MW-2-20200731

York Sample ID:

20G1207-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G1207

190055 11-28 31st Drive LIC

Water

July 31, 2020 9:35 am

07/31/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS N	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOO	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	10.0	J	ug/L	0.200	0.500	1 Certification	EPA 8260C ons: CTDOH,NELAC-NY	07/31/2020 11:08 10854,NELAC-NY120	08/01/2020 08:41 058,NJDEP,PADEP	TMP
79-01-6	Trichloroethylene	0.900	J	ug/L	0.200	0.500	1 Certification	EPA 8260C ons: CTDOH,NELAC-NY	07/31/2020 11:08 10854,NELAC-NY120	08/01/2020 08:41 058,NJDEP,PADEP	TMP
	Surrogate Recoveries	Result		Acc	eptance Rang	e					

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %	69-130
2037-26-5	Surrogate: SURR: Toluene-d8	95.8 %	81-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	109 %	79-122

Sample Information

Client Sample ID: MW-3-20200731 York Sample ID:

20G1207-03

York Project (SDG) No. 20G1207

Client Project ID 190055 11-28 31st Drive LIC Matrix Water

Collection Date/Time July 31, 2020 9:40 am Date Received 07/31/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

					Reported to			Date/Time	Date/Time	
CAS No.	Parameter	Result	Flag	Units	LOD/MDL LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst



Client Sample ID: MW-3-20200731 York Sample ID:

20G1207-03

York Project (SDG) No. 20G1207

Client Project ID 190055 11-28 31st Drive LIC Matrix Water

Collection Date/Time July 31, 2020 9:40 am Date Received 07/31/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample	Prepared	hv	Method:	$FP\Delta$	5030B

CAS No	. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	0.540	J	ug/L	0.200	0.500	1 Certification	EPA 8260C ons: CTDOH,NELAC-NY1	07/31/2020 11:08 0854,NELAC-NY120	08/01/2020 09:06 58,NJDEP,PADEP	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1 Certification	EPA 8260C ons: CTDOH,NELAC-NY1	07/31/2020 11:08 0854,NELAC-NY120	08/01/2020 09:06 58,NJDEP,PADEP	TMP
	Surrogate Recoveries	Result		Acce	ptance Rang	e					
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	95.8 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	113 %			79-122						

Sample Information

Client Sample ID: MW-4-20200731 **York Sample ID:**

20G1207-04

York Project (SDG) No. 20G1207

Client Project ID 190055 11-28 31st Drive LIC Matrix Water

Collection Date/Time July 31, 2020 9:45 am Date Received 07/31/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No	. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	2.36	J	ug/L	0.200	0.500	1 Certification	EPA 8260C ons: CTDOH,NELAC-NY1	07/31/2020 11:08 0854,NELAC-NY120	08/01/2020 09:31 58,NJDEP,PADEP	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	l Certificatio	EPA 8260C ons: CTDOH,NELAC-NY1	07/31/2020 11:08 0854,NELAC-NY120	08/01/2020 09:31 58,NJDEP,PADEP	TMP
	Surrogate Recoveries	Result		Acce	eptance Rang	e					
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	96.0 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	114 %			79-122						

Sample Information

Trip Blank-20200731 **Client Sample ID:**

York Sample ID:

20G1207-05

York Project (SDG) No. 20G1207

Client Project ID 190055 11-28 31st Drive LIC Matrix Water

Collection Date/Time July 31, 2020 12:00 am Date Received 07/31/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No	o. Parameter	Result	Flag Units	Reported to LOD/MDL	LOO	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND	ug/L	0.200	0.500	1 Certification	EPA 8260C	08/05/2020 06:00	08/05/2020 15:25	TMP

STRATFORD, CT 06615 (203) 325-1371





Client Sample ID: Trip Blank-20200731 **York Sample ID:**

20G1207-05

York Project (SDG) No. 20G1207

Client Project ID 190055 11-28 31st Drive LIC Matrix Water

Collection Date/Time July 31, 2020 12:00 am Date Received 07/31/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

	3										
CAS No	. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1 Certificatio	EPA 8260C	08/05/2020 06:00 10854,NELAC-NY120	08/05/2020 15:25 58,NJDEP,PADEP	TMP
	Surrogate Recoveries	Result		Acce	ptance Rang	e					
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	96.1 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	112 %			79-122						



HydroTech Environmental ENGINEERING AND GEOLOGY, DPC

Main Office

77 Arkay Drive, Suite K Hauppauge, New York 11788 T (631) 462-5866; F (631) 462-5877

WWW.HYDROTECHENVIRONMENTAL.COM

January 13, 2021

Ms. Sondra Martinkat New York State Department of Environmental Conservation 47-40 21st Street Long Island City, NY 11101-5407

Re: Quarterly Status Report #5 - August 2020 to December 2020

11-28 31st Drive, Queens, NY NYSBCP Site #C241159

Dear Ms. Martinkat:

This report is intended to serve as a Quarterly Status Report (QSR), covering the period from August 2020 through December 2020 for the above-referenced New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site number C241159. Due to delays associated with impacts of COVID-19, the quarterly sampling event was delayed until December 2020.

The scope of work presented in this report is based upon the NYSDEC-approved Site Management Plan (SMP) dated November 2018 and was performed on behalf of the property owner, GBT Real Estate, LLC. The scope of work is a continuation of the quarterly monitoring and sampling of five existing monitoring wells and the quarterly monitoring of the active Sub-Slab Depressurization System (SSDS) following the submission of a May 30, 2020 Periodic Review Report.

Groundwater Monitoring and Sampling

In accordance with the NYSDEC-approved SMP, the five monitoring wells MW-1 to MW-4 and MW-6 have been gauged on a quarterly basis for the presence of free product, and also to determine the depth to groundwater. The location of monitoring wells is shown in **Figure 1**. The groundwater monitoring covered in this report was performed during November 2020 instead of October 2020 and the groundwater sampling was subsequently performed during December 2020 due to delays associated to impacts of COVID-19.

The monitoring well gauging was performed on November 19, 2020 utilizing a Solinst 122 Oil/Water Interface Probe. During this event, access to monitoring well MW-6 continued to be obstructed by a locked construction fence erected around a vacant property located to the north of the Site. None of the other four gauged monitoring wells were found to contain free product. The depth to water during this monitoring event ranged from 9.36 feet in MW-4 to 12 feet in MW-1. This depth to water in these wells represents an increase of 0.24 feet in MW-1 and MW-4 and an decrease by 0.025 feet in MW-2 and MW-3 since the last event during July 2020.



Table 1 provides the groundwater monitoring and elevation data for the period covered by this report and historical monitoring data. **Attachment A** provides the well monitoring sheet.

Utilizing historical monitoring well casing elevations and the depth to water, the groundwater elevation in the wells were then determined. The groundwater elevations indicate the groundwater flow direction beneath the Site continues to be toward the southwest, consistent with the historic flow directions mapped for this Site. **Figure 2** provides a contour map of groundwater flow direction during November 2020.

Passive Diffusion Bag (PDB) samplers for the groundwater sampling were then placed inside each of the four the monitoring wells MW-1 to MW-4 following well gauging. The PDBs were left inside the wells for the duration of 14 days and were recovered on December 3, 2020.

The groundwater samples were placed in laboratory-supplied containers and secured in a cooler filled with ice and maintained at a maximum 4 degrees Celsius. The samples were transmitted under proper chain of custody procedures to a State-certified (ELAP) laboratory and analyzed for tetrachloroethylene (PCE) and trichloroethylene (TCE) in accordance with EPA Method 8260.

Investigatory-derived waste (IDW) consisting of excess liquid generated during the sampling from of PDBs were placed into a 55-gallon drum. The drum was disposed of in accordance with DER-10 Technical Guidance for Site Investigation and Remediation (May 2010). **Attachment B** provides a copy of the final disposal manifest.

Laboratory analytical results for PCE and TCE in groundwater samples are provided in **Table 2**. **Table 2** also provides the PCE and TCE concentrations over time and a comparison to NYSDEC 6NYCRR Part 703.5 Class groundwater Quality Standards (GQS). **Attachment C** provides a copy of the laboratory analytical report.

As **Table 2** indicates, PCE was detected in MW-2, MW-3 and MW-4. PCE concentration in MW-4 (7.16 μ g/L) marginally exceeds its GQS of 5 μ g/L and it represents a slight increase from 2.36 μ g/L detected during the last sampling event. PCE concentration detected in MW-2 was below its GQS for the first time since February 2018 and it represents a decrease by 83% since July 2020. PCE has continued to be undetected in MW-1 and has occurred in MW-3 at concentrations below GQS since approximately July 2018. TCE did not occur in any of the analyzed groundwater samples collected at the Site.

These findings in this report are consistent with the historic groundwater sampling performed at the Site, which reflects a continued reduction in PCE and TCE since 2018 as a result of natural degradation.

The groundwater data was submitted electronically to the NYSDEC through the Environmental Information Management System using the NYSDEC standardized Electronic Data Deliverable (EDD) format. A Data Usability Summary Report (DUSR) was also prepared for the analytical



results by an independent data reviewer, Mr. Donald Anne of Alpha Geoscience in Clifton Park, NY. The DUSR indicates the data is acceptable and is considered usable. A copy of the DUSR is provided in **Attachment D**.

Active Sub-Slab Depressurization System

The active SSDS has been monitored on a quarterly basis. For the period covered in this report, the monitoring of SSDS was performed alongside the gauging of monitoring wells on November 19, 2020. During this monitoring event, a HydroTech Qualified Environmental Professional inspected the system for proper functioning in accordance with the SSDS Operation and Maintenance Plan in the SMP. **Figure 3** provides the location of the vacuum monitoring points associated with the SSDS.

Table 3 provides the SSDS Monitoring Data collected during November 2020. The SSDS vacuum observed at the inline Dwyer Magnehelic dial type vacuum gauge continues to record - 0.74 inches H₂O. The effluent of the SSDS was monitored with a Photoionization Detector (PID); no organic vapors were detected. The radius of influence of the SSDS was monitored by measuring the vacuum at the three permanent sub-slab vacuum monitoring points VMP-1 to VMP-3.

The vacuum at the vacuum monitoring points VMP-1 to VMP-3 was measured using Model 8710 DP-CalcTM Micromanometer, which measures differential pressure in inches H_2O . Differential pressure readings obtained at the three vacuum monitoring points beneath the building slab indicate a vacuum of -0.03 inches H_2O was measured in VMP-1 and -0.04 inches H_2O was measured in VMP-2 and VMP-3. This level of sub-slab negative pressure remains consistent with historic monitoring data reported since November 2019 and reflects a satisfactory sub-slab vacuum communication for soil vapor intrusion mitigation beneath the building.

Recommendations

- PCE and TCE concentrations in groundwater have decreased by 92% to 100% to asymptotically low to undetected levels since the groundwater remediation by In-situ chemical oxidation (ISCO) injections during May 2018. Since March 2020, PCE has occurred in three on-site monitoring wells MW-2, MW-3 and MW-4 at a maximum concentration not exceeding 10 μ g/L, while TCE occurred only in MW-2 at a maximum concentration not exceeding 0.90 μ g/L until July 2020 and is currently undetected in this well.
 - Due to this significant decrease in PCE and TCE concentrations, HydroTech recommends the termination of the SMP program pertaining to the quarterly groundwater monitoring and sampling at this Site.
 - The monitoring wells MW-1 to MW-6 associated with this Site should also be properly decommissioned in accordance with the New York State Department of Environmental Conservation (NYSDEC) CP-43: Groundwater Monitoring Well Decommissioning Policy (November 2009) (CP-43).



- Since the SSDS has been demonstrated to be effectively operating at the Site after it was started-up during September 2019, HydroTech recommends the modification of the SMP program pertaining to the quarterly SSDS monitoring and change it to annual monitoring. The next annual SSDS monitoring event shall be scheduled in November 2021.

Should you have any questions, please feel free to contact our office at your convenience.

Very Truly Yours,

HydroTech Environmental Engineering and Geology, DPC

Paul I. Matli, PhD, PG Senior Project Manager

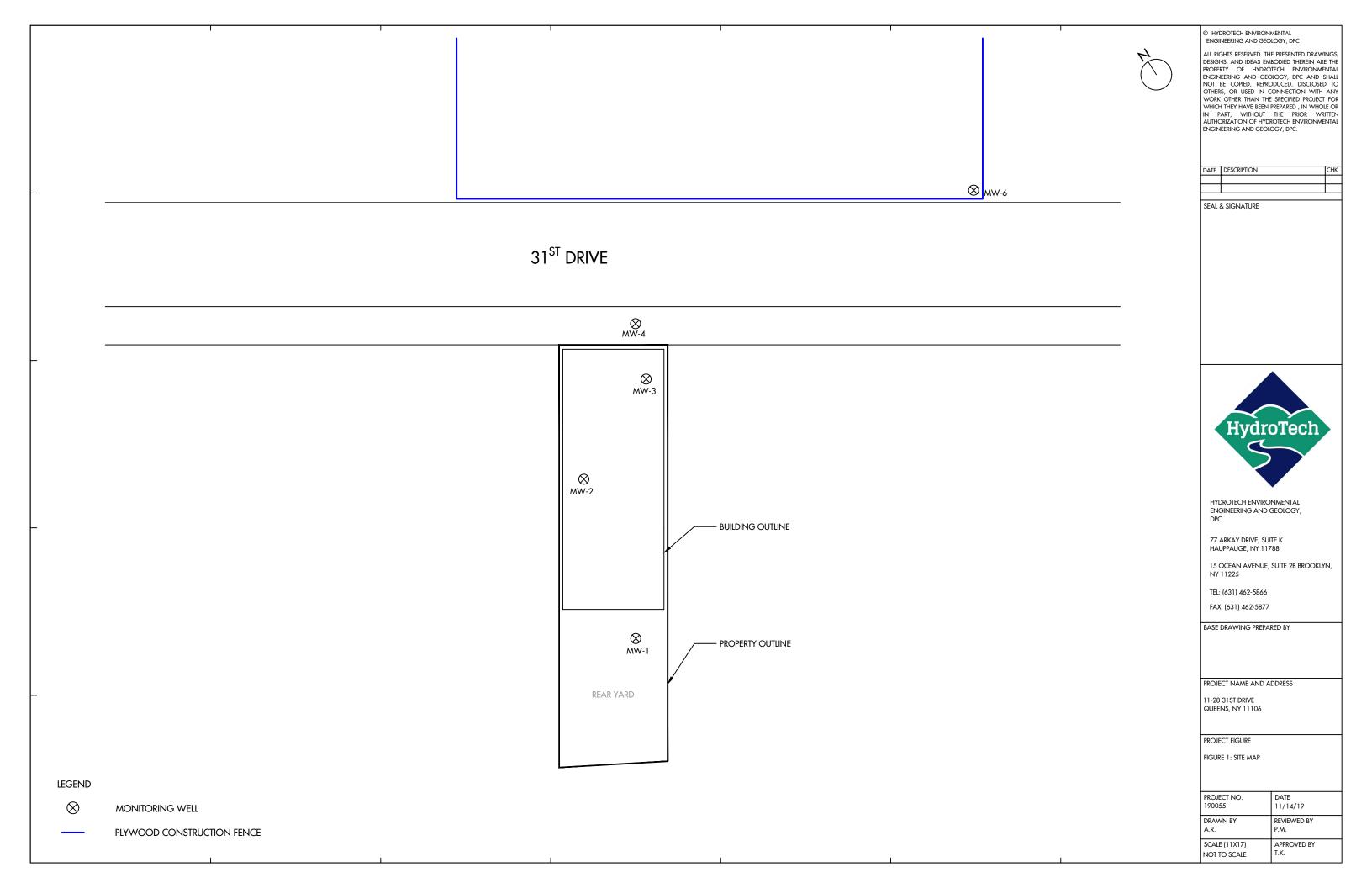
Tand I MINE

PIM/as Enc.

cc: Mr. George Man – GBT Real Estate LLC (by email) w/ Enc.

HydroTech file 190055 w/ Enc.

Figures





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DATE	DESCRIPTION	CHK

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15 OCEAN AVENUE, SUITE 2B BROOKLYN, NY 11225

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BASE DRAWING PREPARED BY

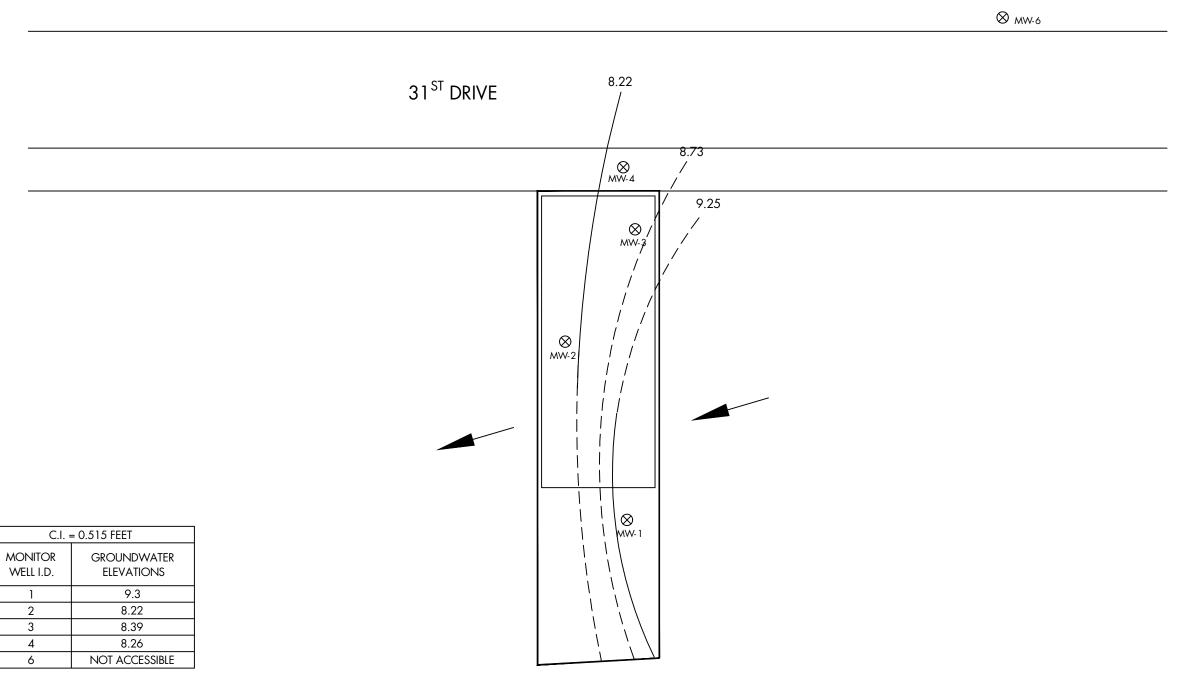
PROJECT NAME AND ADDRESS

11-28 31ST DRIVE QUEENS, NY 11106

PROJECT FIGURE

FIGURE 2: GROUNDWATER FLOW CONTOUR MAP - NOVEMBER 2020

PROJECT NO.	DATE
190055	1/11/21
DRAWN BY	REVIEWED BY
G.T.	P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY T.K.



LEGEND

MONITORING WELL

DASHED LINE WHERE CONTOUR IS INFERRED



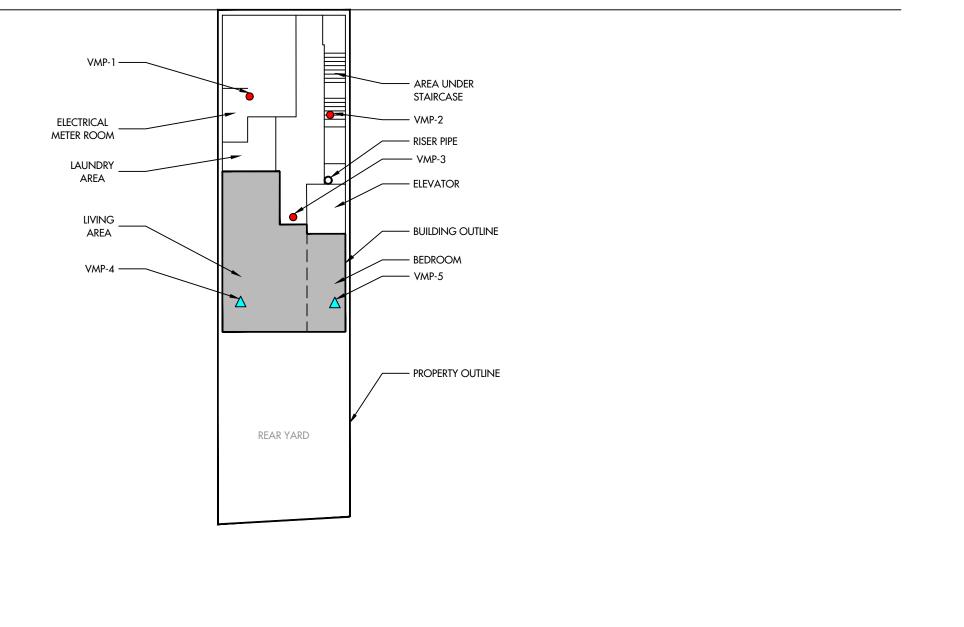


LEGEND

PERMANENT VACUUM MONITORING POINTS

TEMPORARY VACUUM MONITORING POINTS (DECOMMISSIONED AFTER SSDS STARTUP)

RESIDENTIAL UNIT



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DATE	DESCRIPTION	CHK

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TEL: (631) 462-5866

FAX: (631) 462-5877

BASE DRAWING PREPARED BY

PROJECT NAME AND ADDRESS

11-28 31ST DRIVE QUEENS, NY 11106

PROJECT FIGURE

FIGURE 3: VACUUM MONITORING POINTS MAP

PROJECT NO. 190055	DATE 11/14/19
DRAWN BY A.R.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY T.K.

Tables

Table 1 **Groundwater Monitoring Results Over Time**

11-28 31 st	Drive,	Queens, NY
------------------------	--------	------------

Well ID E	.	August 2019			November 2019		March 2020			July 2020			November 2020				
	Elevation	Casing Elevation) ~	DTP	DTW	Water Table Elevation	DTP	DTW	Water Table Elevation	DTP	DTW	Water Table Elevation	DTP	DTW	Water Table Elevation	DTP	DTW
MW-1	12.7	ND	11.08	8.38	ND	11.23	8.53	ND	11.4	8.7	ND	11.55	8.85	ND	12	9.3	
MW-2	12.7	ND	11.01	8.31	ND	11.15	8.45	ND	10.78	8.08	ND	10.95	8.25	ND	10.92	8.22	
MW-3	11.51	ND	9.96	8.45	ND	10.1	8.59	ND	11.23	9.72	ND	9.92	8.41	ND	9.9	8.39	
MW-4	11.10	ND	9.44	8.34	ND	9.60	8.50	ND	9.71	8.61	ND	9.32	8.22	ND	9.36	8.26	
MW-6	9.47	ND	9.97	10.5	ND	10.15	10.68	ND	NA	NA	ND	NA	NA	ND	NA	NA	

All values reported in feet.

DTW...Depth to Water from top of casing

DTP...Depth to Product from top of casing

ND...None Detected

NA...Not Accessible

Water Table elevations adjusted by a site benchmarck elevation of 10 feet

Table 2
Groundwater Samples Analytical Results for PCE and TCE _ Over Time
11-28 31st Drive, Oueens, NY

11-20 31 Drive, Queens, N1												
Sampling Date	MV	V-1	MW-2		M	MW-3		MW-4		W-6	Trip Blank	
Sampling Date	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
1/13/2015	0.2 U	0.2	3.03	0.2 U	20.83	0.52	3,799.8	17	85.83	8.90	0.2 U	0.2 U
2/19/2018	0.28 J	0.2 U	25	0.4 J	4.10	0.2 U	70	0.66	75	15	0.2 U	0.2 U
7/24/2018	0.2 U	0.2 U	20	0.63	1.20	0.2 U	13	0.43 J	43	0.46 J	0.2 U	0.2 U
11/20/2018	0.2 U	0.2 U	11.60	0.68	0.22	0.2 U	2.28	0.2 U	28.4	0.48 J	0.2 U	0.2 U
8/30/2019	0.2 U	0.2 U	20.1	1.21	0.92	0.2 U	2.87	0.2 U	49.6	0.42 DJ	0.2 U	0.2 U
12/10/2019	0.2 U	0.2 U	21.90	1.35	1.27	0.2 U	1.75	0.2 U	I	NA	0.2 U	0.2 U
3/17/2020	0.2 U	0.2 U	6.77	0.52	1.50	0.2 U	6.70	0.2 U	NA		0.2 U	0.2 U
7/31/2020	0.2 U	0.2 U	10	0.90	0.54	0.2 U	2.36	0.2 U	NA		0.2 U	0.2 U
12/3/2020	0.2 U	0.2 U	1.70	0.2 U	1.28	0.2 U	7.16	0.2 U		NA	0.2 U	0.2 U

NOTES:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated U=analyte not detected at or above the level indicated

NS=this indicates that no regulatory limit has been established for this analyte

Shaded concentration exceeds GQS of PCE or TCE of 5 μ g/L

GQS=NYSDEC TOGS Standards and Guidance Values - GA PCE=Tetrachloroethylene

TCE=Trichloroethylene

1/13/2015=Sampling performed during the Remedial Investigation

2/19/2018=Baseline sampling performed prior to ISCO Injection Program

7/24/2018= Sampling performed 2 months post-ISCO injections

11/20/2018=Quaretrly sampling performed 5 months post-ISCO injections

8/30/2019 to 12/12/2020=Quartely sampling performed 30 months post-ISCO Injections to-date

NA= Not sampled due to limited access

Attachments

Attachment A Well Monitoring Sheet



WELL MONITORING LOG SHEET

Project Name	11-28 31st Drive		Date	11-19-2020						
Client	Mr. George Man		Instrument							
Site Location	11-28 31st Drive, LIC	NY	BCP Site #	# C241159						
Monitoring Schedule	Monthly:	Quartely : _x_	Bi-Annually :							
	$Legend \\ S = Snow & D = Dry & G = Gone & C = Can't Locate & NA = Not Accessible \\ DTW = Depth to Water & DTP = Depth to Product & PT = Product Thickness & ND = None Detected \\ \\ DTW = Depth to Water & DTP = Depth to Product & PT = Product Thickness & ND = None Detected \\ \\ DTW = Depth to Water & DTP = Depth to Product & PT = Product Thickness & ND = None Detected \\ \\ DTW = Depth to Water & DTP = Depth to Product & PT = Product Thickness & ND = None Detected \\ \\ DTW = Depth to Water & DTP = Depth to Product & PT = Product Thickness & ND = None Detected \\ \\ DTW = Depth to Water & DTP = Depth to Product & PT = Product Thickness & ND = None Detected \\ \\ DTW = Depth to Water & DTP = Depth to Product & PT = Product Thickness & ND = None Detected \\ \\ DTW = Depth to Water & DTP = Depth to Product & PT = Product Thickness & ND = None Detected \\ \\ DTW = Depth to Water & DTP = Depth to Product & PT = Product Thickness & PT = PT = PT & PT = PT & PT = PT & PT &$									
Monitoring V MW-1 MW-2 MW-3 MW-4 MW-6 MW-6	Well D.T.P. ND ND ND ND NA NA urements in feet, below	D.T.W. 12 10.92 9.9 9.36 NA when the nortnern to	op of well casing							
Notes:	All measurements are									
Reported By:										
Paul I. Matli										

Attachment B Drum Disposal Manifest

4220599 13/24

5.	WASTE MANIFEST	I N 7 Z			3. Emergency Respo		4. Waste	Tracking N	lumber
1	Generator's Name and Maili	ling Address		1	(267) 406-00			4	12819
ļ	GBT Real Estate	LLC	Ait: Ger	orge Man	Generator's Site Add	ress (if differen	nt than mailing add	dress)	
	11-28 31st Drive	NAME OF TAXABLE PARTY.							
G	Long Island City enerator's Phone: 371	NY 11105		ř.					
6.	Transporter 1 Company Nan	415-2002 me							
							U.S. EPA II	D Number	
7.	Transporter 2 Company Nan	rchng Technologies. I	ing.				NYF	0 0	01349.
	a street system was recommended						U.S. EPA II	Number 1	01348
		nmental Systems / fe		-			PAI	9.8	255131
	Republic Environs	nental Systems (Ga) 1	LC				U.S. EPA ID	Number	
	2869 Sandstone E Histlield PA 1944	Mise							
Fa	cility's Phone: 215 82	U Display							
							PAD	0.8	569059
	9. Waste Shipping Name	e and Description			10. Co	ntainers	11. Total	12. Unit	
200	1 _{Nino} sinon si	all the second and th			No.	Туре	Quantity	Wt./Vol.	
	Non Hazardou Non-DOT Neg	s l'urge Water							
	The second second	Charles Charlestells			1001		_	1	
1	2.				01	DW	500	P	
	3.								
-	4.					1 1			TRACE TO SERVED I
					1				
3 1	Special Handling Instructions	Taribi Taribi							
4. C	SENERATOR'S/OFFEROR'S narked and labeled/placarded prator's/Offeror's Printed/Typ		e that the contents of this condition for transport accor			scribed above	by the proper shi	pping name	e, and are classified, pack
	Hanho	ed Name	e that the contents of this condition for transport according	onsignment are fiding to applicable Signat		scribed above tional governm	by the proper shi ental regulations.	pping name	e, and are classified, pack
5. Ir	temational Shipments	Import to U.S.		Signat	ure		by the proper shi	pping name	
5. Ir	ternational Shipments	Import to U.S.			ure Pørt offer	ntry/exit	by the proper shi ental regulations.	pping name	
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5. Ir	nternational Shipments sporter Signature (for exports ransporter Acknowledgment spotter 1 Printed/Typed Name	Import to U.S. s only): of Receipt of Materials		Signat	Port offer Date leav	ntry/exit	by the proper shi ental regulations.	pping name	Month Day
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Stericycle CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

Page #

Generator: 615070 - GBT REAL ESTATE, LLC

11-28 31ST DRIVE

LONG ISLAND CITY NY, 11106

EPA ID:

CESQG

Facility: REPUBLIC ENV SYS (PA) LLC

2869 SANDSTONE DRIVE HATFIELD PA, 19440

EPA ID: PAD085690592

Manifest #: 42819

Waste Receipt #: HAT-9501W

Date Received: 12/24/2020

Treatment

Disposal Description

1996775-01

Line Profile

Material Description NON-REGULATED MATERIAL (PURGE WATER) H141 STORAGE, BULKING, AND/OR TRANSFER OFF-SITE - NO

TREATMENT/RECOVERY/BLENDING

Name: MARCIA THOMAS

Signature: Mauria Thomas

Title: Logistic Coordinator

Attachment C Laboratory Analytical Report



Technical Report

prepared for:

Hydro Tech Environmental (Brooklyn)

15 Ocean Avenue, Suite 2B Brooklyn NY, 11225 Attention: Paul Matli

Report Date: 12/08/2020

Client Project ID: 190055 11-28 31 Drive Queens NY

York Project (SDG) No.: 20L0252

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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STRATFORD, CT 06615 (203) 325-1371

132-02 89th AVENUE FAX (203) 357-0166 RICHMOND HILL, NY 11418 ClientServices@yorklab.com Report Date: 12/08/2020

Client Project ID: 190055 11-28 31 Drive Queens NY

York Project (SDG) No.: 20L0252

Hydro Tech Environmental (Brooklyn)

15 Ocean Avenue, Suite 2B Brooklyn NY, 11225 Attention: Paul Matli

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 03, 2020 and listed below. The project was identified as your project: 190055 11-28 31 Drive Queens NY.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
20L0252-01	MW-1_20201203	Water	12/03/2020	12/03/2020
20L0252-02	MW-2_20201203	Water	12/03/2020	12/03/2020
20L0252-03	MW-3_20201203	Water	12/03/2020	12/03/2020
20L0252-04	MW-4_20201203	Water	12/03/2020	12/03/2020
20L0252-05	Trip Blank_20201203	Water	12/03/2020	12/03/2020

General Notes for York Project (SDG) No.: 20L0252

- 1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
- 2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
- 3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
- 4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
- 5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
- 6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
- 7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Benjamin Gulizia Laboratory Director **Date:** 12/08/2020



Sample Information

<u>Client Sample ID:</u> MW-1_20201203 <u>York Sample ID:</u> 20L0252-01

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received20L0252190055 11-28 31 Drive Queens NYWaterDecember 3, 2020 10:00 am12/03/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS N	No. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NE	12/03/2020 13:47 ELAC-NY10854,NELA	12/03/2020 19:59 AC-NY12058,NJDEP	TMP PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NE	12/03/2020 13:47 ELAC-NY10854,NEL	12/03/2020 19:59 AC-NY12058,NJDEP	TMP PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	89.5 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	83.1 %			79-122							

Sample Information

<u>Client Sample ID:</u> <u>MW-2_20201203</u> <u>York Sample ID:</u> <u>20L0252-02</u>

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received20L0252190055 11-28 31 Drive Queens NYWaterDecember 3, 2020 10:10 am12/03/2020

Volatile Organics, 8260 - TCE/PCE

Sample Prepared by Method: EPA 5030B

Log-in Notes:	Sample Notes:
----------------------	----------------------

CAS No	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	1.70		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,N	12/03/2020 13:47 IELAC-NY10854,NEL	12/03/2020 20:25 AC-NY12058,NJDEI	TMP P,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	12/03/2020 13:47 ELAC-NY10854,NEL	12/03/2020 20:25 AC-NY12058,NJDEP	TMP PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	107 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	90.4 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	82.4 %			79-122							

Sample Information

<u>Client Sample ID:</u> <u>MW-3_20201203</u> <u>York Sample ID:</u> <u>20L0252-03</u>

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received20L0252190055 11-28 31 Drive Queens NYWaterDecember 3, 2020 10:20 am12/03/2020

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Sample Information

MW-3_20201203 **Client Sample ID:**

York Sample ID:

20L0252-03

York Project (SDG) No. 20L0252

Client Project ID 190055 11-28 31 Drive Queens NY Matrix Water

Collection Date/Time December 3, 2020 10:20 am Date Received 12/03/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS N	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	1.28		ug/L	0.200	0.500	1	EPA 8260C		12/03/2020 13:47	12/03/2020 20:51	TMP
								Certifications:	CTDOH,N	ELAC-NY10854,NEL	AC-NY12058,NJDEI	P,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C		12/03/2020 13:47	12/03/2020 20:51	TMP
								Certifications:	CTDOH,NI	ELAC-NY10854,NELA	AC-NY12058,NJDEP	,PADEP
	Surrogate Recoveries	Result		Acce	eptance Rang	e						
17060-07-0	Surrogate: SURR:	107 %			69-130							
	1,2-Dichloroethane-d4											
2037-26-5	Surrogate: SURR: Toluene-d8	90.7 %			81-117							
460-00-4	Surrogate: SURR:	82.0 %			79-122							
	p-Bromofluorobenzene											

Sample Information

MW-4 20201203 **Client Sample ID:**

York Sample ID:

20L0252-04

York Project (SDG) No. 20L0252

Client Project ID

Result

7.16

190055 11-28 31 Drive Queens NY

Flag

Units

ug/L

Matrix Water

Dilution

Collection Date/Time December 3, 2020 10:15 am

Date/Time

12/03/2020 13:47

12/03/2020 13:47

CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Prepared

Date Received 12/03/2020

Volatile Organics, 8260 - TCE/PCE

Tetrachloroethylene

Trichloroethylene

Parameter

Sample Prepared by Method: EPA 5030B

CAS No.

127-18-4

Log-in Notes:

LOO

0.500

Reported to

LOD/MDL

Sample Notes:

Reference Method

EPA 8260C

Certifications

EPA 8260C

Certifications:

Date/Time Analyst 12/03/2020 21:18 TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP 12/03/2020 21:18

79-01-6	Trichloroethylene	0.270	QL-02, ug/L J	0.200	0.500
	Surrogate Recoveries	Result	Acc	ceptance Rar	ige
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %		69-130	
2037-26-5	Surrogate: SURR: Toluene-d8	89.9 %		81-117	
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	83.8 %		79-122	

Sample Information

Client Sample ID: Trip Blank 20201203 York Sample ID:

20L0252-05

York Project (SDG) No. 20L0252

Client Project ID 190055 11-28 31 Drive Queens NY <u>Matrix</u> Water

Collection Date/Time December 3, 2020 12:00 am Date Received 12/03/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

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Sample Information

Client Sample ID: Trip Blank_20201203

York Sample ID: 20L0252-05

Date Received

York Project (SDG) No.Client Project IDMatrixCollection Date/Time20L0252190055 11-28 31 Drive Queens NYWaterDecember 3, 2020 12:00

December 3, 2020 12:00 am 12/03/2020

Sample Prepared by Method: EPA 5030B

CAS No	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference M	lethod	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: C	CTDOH,NE	12/03/2020 13:47 ELAC-NY10854,NELA	12/03/2020 19:33 AC-NY12058,NJDEP	TMP PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: C	TDOH,NE	12/03/2020 13:47 ELAC-NY10854,NELA	12/03/2020 19:33 AC-NY12058,NJDEP	TMP PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	107 %			69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	90.1 %			81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	82.7 %			79-122							

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Analytical Batch Summary

Batch ID: BL00220	Preparation Method:	EPA 5030B	Prepared By:	TMP
YORK Sample ID	Client Sample ID	Preparation Date		
20L0252-01	MW-1 20201203	12/03/20		
20L0252-02	MW-2 20201203	12/03/20		
20L0252-03	MW-3_20201203	12/03/20		
20L0252-04	MW-4_20201203	12/03/20		
20L0252-05	Trip Blank_20201203	12/03/20		
BL00220-BLK1	Blank	12/03/20		
BL00220-BS1	LCS	12/03/20		
BL00220-MS1	Matrix Spike	12/03/20		
BL00220-MSD1	Matrix Spike Dup	12/03/20		



Volatile Organic Compounds by GC/MS - Quality Control Data York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BL00220 - EPA 5030B											
Blank (BL00220-BLK1)							Prep	pared & Anal	yzed: 12/03/	2020	
Tetrachloroethylene	ND	0.500	ug/L								
Trichloroethylene	ND	0.500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.8		"	10.0		108	69-130				
Surrogate: SURR: Toluene-d8	8.95		"	10.0		89.5	81-117				
Surrogate: SURR: p-Bromofluorobenzene	8.54		"	10.0		85.4	79-122				
LCS (BL00220-BS1)							Prej	pared & Anal	yzed: 12/03/	2020	
Tetrachloroethylene	8.56		ug/L	10.0		85.6	82-131				
Trichloroethylene	8.17		"	10.0		81.7	82-128	Low Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	9.67		"	10.0		96.7	69-130				
Surrogate: SURR: Toluene-d8	9.08		"	10.0		90.8	81-117				
Surrogate: SURR: p-Bromofluorobenzene	8.99		"	10.0		89.9	79-122				
Matrix Spike (BL00220-MS1)	*Source sample: 2	0L0252-01 (M	W-1_20201	1203)			Prej	pared: 12/03/2	2020 Analyz	red: 12/04/2	020
Tetrachloroethylene	13.1		ug/L	10.0	0.00	131	64-139				
Trichloroethylene	11.3		"	10.0	0.00	113	53-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	10.4		"	10.0		104	69-130				
Surrogate: SURR: Toluene-d8	8.93		"	10.0		89.3	81-117				
Surrogate: SURR: p-Bromofluorobenzene	8.45		"	10.0		84.5	79-122				
Matrix Spike Dup (BL00220-MSD1)	*Source sample: 2	0L0252-01 (M	W-1_20201	1203)			Prep	pared: 12/03/2	2020 Analyz	red: 12/04/2	020
Tetrachloroethylene	13.3		ug/L	10.0	0.00	133	64-139		1.74	30	
Trichloroethylene	11.3		"	10.0	0.00	113	53-145		0.177	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.8		"	10.0		108	69-130				
Surrogate: SURR: Toluene-d8	8.70		"	10.0		87.0	81-117				
Surrogate: SURR: p-Bromofluorobenzene	8.60		"	10.0		86.0	79-122				

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20L0252-01	MW-1_20201203	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20L0252-02	MW-2_20201203	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20L0252-03	MW-3_20201203	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20L0252-04	MW-4_20201203	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20L0252-05	Trip Blank 20201203	40mL Clear Vial, Sodium Bisulfate; Cool 4°C



Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method
	has certain limitations with respect to analytes of this nature

J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

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For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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いる Container Description 9 X LUE MILL WILL JANS MY NIS Temp. Received at Lab YORK Reg. Comp. Compared to the following Regulation(s): (please fill in) 31 W W/ 14 **Turn-Around Time** Special Instruction Page of MISSOCI Standard (5-7 Day) Field Filtered RUSH - Three Day RUSH - Four Day RUSH - Next Day Lab to Filter **YORK Project No.** RUSH - Two Day 500 ú 13 12/3/20 10.55em Date/Time Standard Excel EDD CAP 8960B NJDEP SRP HazSite FOulS (Standard) ZnAc NYSDEC EQUIS 11-28 71 Drive YOUR Project Number 190055 YOUR Project Name Field Chain-of-Custody Record Report / EDD Type (circle selections) NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions. Preservation: (check all that apply) NaOH Analysis Requested William / york TCE C'S HNO3 H2SO4 Samples Received in LAB by CT RCP DOA/DUE NJDEP Reduced Dreen Deliverables YOUR PO#: NJDKOP CT RCP Other: Pc 6 and NY ASP B Package NY ASP A Package Summary Report MeOH Ascorbic Acid QA Report (2/3 HC Invoice To: Date/Time Sampled Mich and My 0-101-02/2/21 12/11/20 1:12 12/2/2/20 Samples From Pennsylvania 14/120 Connecticut New Jersey New York Other DW - drinking water Sample Matrix Matrix Codes WW - wastewater GW - groundwater 0-0il Other S - soil / solid 3 â Report To: 12/1/2/2/21 Please print clearly and legibly. All Information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved. York Analytical Laboratories, Inc. 132-02 89th Ave Queens, NY 11418 2020/203 2021203 clientservices@yorklab.com 2026/201 Samples Collected by: (print your name above and sign below) 2020/103 20201203 10 Date/Time www.yorklab.com Contact Sample Identification 120 Research Drive Stratford, CT 06615 Not on ice From Field S. S. 13.2 6 1 ath マンス 0300 YOUR Information ant (HS/HI) コナヤード The sound Triol MWIN MM L S. MY Comments: -BY Alach Donn Page 12 of 12

Attachment D Copy of DUSR



Geology

Hydrology

Remediation

Water Supply

January 5, 2021

Mr. Paul I. Matli, Ph.D., P.G. Hydro Tech Environmental 77 Arkay Drive, Suite K Hauppauge, NY 11787

Re: Data Validation Report

December 2020 Ground Water Sampling Event

11-28 31st Drive, LIC, NY

Dear Dr. Matli:

The data usability summary report and data validation summary are attached to this letter for the above referenced project. The data for York Analytical Laboratories, Inc. SDG 20L0252 were acceptable with some minor issues that are identified in the validation summary. There were no data that were qualified as rejected, unusable (R) in the data pack.

We have attached lists of data validation acronyms and data qualifiers to assist you in the interpretation of the reviews. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Hydro Tech Environmental, Corp.

Sincerely,

Bonald S

Alpha Geoscience

Donald Anné Senior Chemist

DCA:dca attachments

z:\projects\2015\15600 - 15620\15604-11-28 31 drive\2020\11-28 31 drive-204.ltr.docx



Data Usability Summary Report for York Analytical Laboratories, Inc., SDG: 20L0252

4 Ground Water Samples and 1 Trip Blank Collected December 3, 2020

Prepared by: Dinah Dixon Reviewed by: Donald Anné

January 5, 2021

Hydrology
Remediation
Water Supply

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appears legible and complete. The data pack contains the results of 4 ground water samples and 1 trip blank analyzed for volatiles only.

The overall performances of the analyses are acceptable. York Analytical Laboratories, Inc. did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- The "not detected" volatile results for trichloroethylene were qualified as "estimated" (UJ) in samples MW-1_20201203, MW-2_20201203, MW-3_20201203, and Trip Blank_20201203 because the percent recovery for trichloroethylene was below QC limits, but no below 30% in the associated aqueous LCS.
- The positive volatile result for trichloroethylene was qualified as "estimated, biased low" (J-) in sample MW-4_20201203, because the percent recovery for trichloroethylene was below the lower QC limit in the associated LCS.

All data are considered usable, with estimated (UJ or J-) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

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Geology

Hydrology

Remediation

Water Supply

QA/QC Review of Method 8260C Volatiles Data for York Analytical Laboratories, Inc., SDG: 20L0252

4 Ground Water Samples and 1 Trip Blank Collected December 3, 2020

Prepared by: Dinah Dixon Reviewed by: Donald Anné January 5, 2021

Holding Times: Samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

<u>Initial Calibration</u>: The average RRFs for applicable compounds were above the method minimums, as required.

The average RRF for trichloroethylene and tetrachloroethylene were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

<u>Continuing Calibration</u>: The RRFs for applicable compounds were above the method minimums, as required.

The RRF for trichloroethylene and tetrachloroethylene were above the allowable minimum (0.010 and the %Ds were below the allowable maximum (25%), as required.

<u>Blanks</u>: The analyses of method and trip blanks reported trichloroethylene and tetrachloroethylene as not detected.

<u>Internal Standard Area Summary</u>: The internal standard areas and retention times were within control limits.

<u>Surrogate Recovery</u>: The surrogate recoveries were within control limits for the ground water samples and trip blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for tetrachloroethylene and trichloroethylene were below the allowable maximum and percent recoveries were within QC limits for aqueous MS/MSD sample MW-1_20201203.

SDG: 20L0252

<u>Laboratory Control Sample</u>: The percent recovery for trichloroethylene was below QC limits, but not below 30% for aqueous sample BL00220-BS1. Samples reporting positive results for trichloroethylene should be considered as estimated, biased low (J-) and not detected results should be considered estimated (UJ) in associated aqueous samples.

<u>Compound ID</u>: Checked compounds and surrogates were within GC quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

Data Validation Acronyms

AA Atomic absorption, flame technique

BHC Hexachlorocyclohexane BFB Bromofluorobenzene

CCB Continuing calibration blank
CCC Calibration check compound
CCV Continuing calibration verification

CN Cyanide

CRDL Contract required detection limit
CRQL Contract required quantitation limit
CVAA Atomic adsorption, cold vapor technique

DCAA 2,4-Dichlophenylacetic acid

DCB Decachlorobiphenyl

DFTPP Decafluorotriphenyl phosphine ECD Electron capture detector

FAA Atomic absorption, furnace technique

FID Flame ionization detector FNP 1-Fluoronaphthalene GC Gas chromatography

GC/MS Gas chromatography/mass spectrometry

GPC Gel permeation chromatography

ICB Initial calibration blank

ICP Inductively coupled plasma-atomic emission spectrometer

ICV Initial calibration verification IDL Instrument detection limit

IS Internal standard

LCS Laboratory control sample

LCS/LCSD Laboratory control sample/laboratory control sample duplicate

MSA Method of standard additions
MS/MSD Matrix spike/matrix spike duplicate

PID Photo ionization detector
PCB Polychlorinated biphenyl
PCDD Polychlorinated dibenzodioxins
PCDF Polychlorinated dibenzofurans

QA Quality assurance QC Quality control RF Response factor

RPD Relative percent difference RRF Relative response factor

RRF(number) Relative response factor at concentration of the number following

RT Retention time

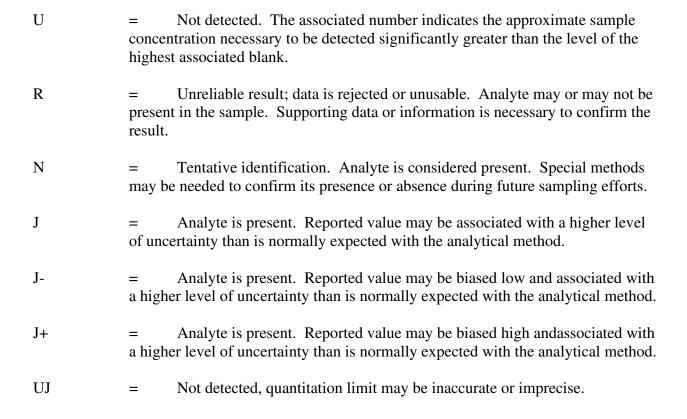
RRT Relative retention time SDG Sample delivery group

SPCC System performance check compound

TCX Tetrachloro-m-xylene %D Percent difference %R Percent recovery

%RSD Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II



Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

FORM III

LCS / LCS DUPLICATE RECOVERY EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20L0252

Client: Hydro Tech Environmental (Brooklyn) Project: 190055 11-28 31 Drive Queens NY

Matrix: <u>Water</u>

 Batch:
 BL00220
 Laboratory ID:
 BL00220-BS1

 Preparation:
 EPA 5030B
 Initial/Final:
 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC.#	QC LIMITS REC.
Tetrachloroethylene	10.0	8.56	85.6	82 - 131
Trichloroethylene	10.0	8.17	81.7 *	82 - 128

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits



Sample Information

Client Sample ID: MW-1_20201203 York Sample ID: 20L0252-01

York Project (SDG) No. Collection Date/Time Client Project ID Matrix Date Received 20L0252 190055 11-28 31 Drive Queens NY Water December 3, 2020 10:00 am 12/03/2020

Volatile Organics, 8260 - TCE/PCE

1,2-Dichloroethane-d4

 $p\hbox{-}Bromofluor obenzene$

Surrogate: SURR:

Surrogate: SURR: Toluene-d8

89.5 %

83.1 %

Sample Prepared by Method: EPA 5030B

2037-26-5

460-00-4

Log-in Notes:

Sample Notes:

CAS N	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	12/03/2020 13:47 ELAC-NY10854,NELA	12/03/2020 19:59 AC-NY12058,NJDEP,	TMP P,PADEP
79-01-6	Trichloroethylene	ND	UJ	ug/L	0.200	0.500	1	EPA 8260C Certifications:	CTDOH,NI	12/03/2020 13:47 ELAC-NY10854,NELA	12/03/2020 19:59 AC-NY12058,NJDEP	TMP P,PADEP
	Surrogate Recoveries	Result		Acce	ptance Rang	e						
17060-07-0	Surrogate: SURR:	106 %			69-130							

81-117

79-122

MW-2_20201203 **Client Sample ID:** York Sample ID: 20L0252-02

Sample Information

York Project (SDG) No. Client Project ID Collection Date/Time Date Received Matrix 20L0252 190055 11-28 31 Drive Queens NY Water December 3, 2020 10:10 am 12/03/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Page 4 of 12

CAS N	•	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference I	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	1.70		ug/L	0.200	0.500	1	EPA 8260C		12/03/2020 13:47	12/03/2020 20:25	TMP
								Certifications:	CTDOH,N	ELAC-NY10854,NEL	AC-NY12058,NJDEI	P,PADEP
79-01-6	Trichloroethylene	ND	UJ	ug/L	0.200	0.500	1	EPA 8260C		12/03/2020 13:47	12/03/2020 20:25	TMP
								Certifications:	CTDOH,NI	ELAC-NY10854,NELA	AC-NY12058,NJDEP	,PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e						
17060-07-0	Surrogate: SURR:	107 %			69-130							
	1,2-Dichloroethane-d4											
2037-26-5	Surrogate: SURR: Toluene-d8	90.4 %			81-117							
460-00-4	Surrogate: SURR:	82.4 %			79-122							
	p-Bromofluorobenzene											

Sample Information

MW-3_20201203 **Client Sample ID:** York Sample ID: 20L0252-03

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 20L0252 190055 11-28 31 Drive Queens NY Water December 3, 2020 10:20 am 12/03/2020

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Sample Information

MW-3_20201203 **Client Sample ID:**

York Sample ID:

20L0252-03

York Project (SDG) No. 20L0252

Client Project ID 190055 11-28 31 Drive Queens NY Matrix Water

Collection Date/Time December 3, 2020 10:20 am Date Received 12/03/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

Sample Pr	epared by	Method:	EPA	5030B

CAS No	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference I	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	1.28		ug/L	0.200	0.500	1	EPA 8260C		12/03/2020 13:47	12/03/2020 20:51	TMP
								Certifications:	CTDOH,N	ELAC-NY10854,NEL	AC-NY12058,NJDEI	P,PADEP
79-01-6	Trichloroethylene	ND	UJ	ug/L	0.200	0.500	1	EPA 8260C		12/03/2020 13:47	12/03/2020 20:51	TMP
								Certifications:	CTDOH,NE	ELAC-NY10854,NELA	AC-NY12058,NJDEP	,PADEP
	Surrogate Recoveries	Result		Acce	eptance Rang	e						
17060-07-0	Surrogate: SURR:	107 %			69-130							
	1,2-Dichloroethane-d4											
2037-26-5	Surrogate: SURR: Toluene-d8	90.7 %			81-117							
460-00-4	Surrogate: SURR:	82.0 %			79-122							
	p-Bromofluorobenzene											

Sample Information

Client Sample ID:

MW-4 20201203

York Sample ID:

20L0252-04

York Project (SDG) No. 20L0252

Client Project ID

190055 11-28 31 Drive Queens NY

Matrix Water

Collection Date/Time December 3, 2020 10:15 am Date Received 12/03/2020

Analyst

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

CAS N	o. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Meth	Date/Time od Prepared	Date/Time Analyzed	Analys
127-18-4	Tetrachloroethylene	7.16		ug/L	0.200	0.500	1	EPA 8260C	12/03/2020 13:47	12/03/2020 21:18	TMP
								Certifications: CTDC	H,NELAC-NY10854,NEI	AC-NY12058,NJDE	P,PADEP
79-01-6	Trichloroethylene	0.270	QL-02,	ug/L	0.200	0.500	1	EPA 8260C	12/03/2020 13:47	12/03/2020 21:18	TMP
		J-	J					Certifications: CTDC	H,NELAC-NY10854,NEI	AC-NY12058,NJDE	P,PADEP
	Surrogate Recoveries	Result		Acc	eptance Rang	e					
17060-07-0	Surrogate: SURR:	108 %			69-130						

	1,2-Dichloroethane-d4		
2037-26-5	Surrogate: SURR: Toluene-d8	89.9 %	
460-00-4	Surrogate: SURR:	83.8 %	

81-117

p-Bromofluorobenzene

79-122

Sample Information

Client Sample ID: Trip Blank 20201203 York Sample ID:

20L0252-05

York Project (SDG) No. 20L0252

Client Project ID 190055 11-28 31 Drive Queens NY Matrix Water

Collection Date/Time December 3, 2020 12:00 am Date Received 12/03/2020

Volatile Organics, 8260 - TCE/PCE

Log-in Notes:

Sample Notes:

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Page 5 of 12



Sample Information

Client Sample ID: Trip Blank_20201203 **York Sample ID:** 20L0252-05

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 20L0252 190055 11-28 31 Drive Queens NY Water December 3, 2020 12:00 am 12/03/2020

Sample Prepared by Method: EPA 5030B

CAS N	lo. Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Me	Date/Tim ethod Prepare	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CT	12/03/2020 13: DOH,NELAC-NY10854,	TMP P,PADEP
79-01-6	Trichloroethylene	ND	UJ	ug/L	0.200	0.500	1	EPA 8260C Certifications: CT	12/03/2020 13: TDOH,NELAC-NY10854,	TMP P,PADEP
	Surrogate Recoveries	Result		Acce	ptance Rang	e				
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	107 %			69-130					
2037-26-5	Surrogate: SURR: Toluene-d8	90.1 %			81-117					
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	82.7 %			79-122					

APPENDIX 3 QUARTERLY SSD SYSTEM INSPECTION CHECKLISTS



Inspector's name and title	Site Address	Date	
Donovan Edwards	11-28 31 Drive, LIC, NY	7/15/20	21
Remedy Description of Cover Systems	· · · · · · · · · · · · · · · · · · ·		
I. Review of the current remedy			
dentify the current remedy:			
ASSDS			
How many SSDS Systems are used?	-		
2. Review of the current remedy goals			
What schedule has been established for monitoring of SSL	s? Quarterly		
B. Summary of Remedy Performance Assessment			
1. Evaluate remedy effectiveness:			
Based on information collected since the last O&M review or could eventually fail to meet remedy goals?	d√es □ No		
Since the last O&M review, have monitoring data exhibite	and trands indicative of a new or renewed release?	□ Yes ∠	
onice the ass Octal review, have monitoring data exhibit	direc		
Since the last O&M review, have changes in landuse been	□ Yes		
to reduce the protectiveness of the SSDS remedy?	HVO		
Since the last O&M review, have contaminants been i	□ Yes		
where they pose or have the potential to pose unacceptab	le risks to receptors?	5 No	
If you answered yes to any of the above questions, did the the condition being monitored to evaluate the need for fu	ture action? Use this space to comment. What actions, if	□ Immediate Action	
any, have been taken and/or are planned in response to the	ne new information?	□ Monitor for future	
		M/A	
Based on your answers to the above questions, is there reatime? If yes, use this space to comment.	ason to evaluate the need for a contingent remedy at this	□ Yes	
		TINO	
SSDS			
PID at effluent		0-1	PPM
Vacuum guage -		-0.74	Inch H20
Vacuum Reading at the 3 vacuum monitorinbg points: V	Inch H20		
Fan Condition	☐ Function □ Damage		
Alarm Condition	6 Function □ Damage		
Was the Subslab Depressurization System (SSDS) operation if "No," explain below why the system was not running, operational when leaving. If successful in making the SSI	efforts taken to restart the SSDS and if the system was	bxes	

	□ No
Were all sub-slab vacuum readings less than of equal to - 0.01 inches of water? If "Yes," the SSDS is deemed still effective and the vacuum readings taken during this inspection are now the new baseline readings. If "No," system must be adjusted/amended and the SSDS re-commissioned. Discuss adjustments and	₩ Yes
amendments below:	□ No
List below all pertinent observations and actions taken during this Inspection: i.e., sagging/damaged pipes, construction changes to building that may affect the system, pipe leaks that may nee has occupancy zoning changed (i.e. commercial to residential), are non-SSDS engineered systems still functioning as needed.	
Did you observe breaking or cracks in the slab cover	□ Yes
If yes describe the level of alteration needed for repairs and remedies?	



Inspector's name and title	Site Address	Date			
Como vem Galusia	11-28 31 Drive, LIC, NY	11-14-20	11		
Remedy Description of Cover Systems					
1. Review of the current remedy					
Identify the current remedy:					
desDs					
How many SSDS Systems are used?					
2. Review of the current remedy goals					
What schedule has been established for monitoring of SS	DS?				
q	contry				
B. Summary of Remedy Performance Assessment	7				
1. Evaluate remedy effectiveness:					
Based on information collected since the last O&M review or could eventually fail to meet remedy goals?	v, do monitoring data indicate that the system is failing	® les			
		□ No			
Since the last O&M review, have monitoring data exhibit	ed trends indicative of a new or renewed release?	□ Yes			
	1 No				
Since the last O&M review, have changes in landuse beer	suggested and or implemented that have the potential	□ Yes			
to reduce the protectiveness of the SSDS remedy?	dexio				
	identified in new locations or at higher concentrations	□ Yes ,			
where they pose or have the potential to pose unacceptal	ne risks to receptors:	□ No			
If you answered yes to any of the above questions, did th	e information suggest the need for immediate action or is				
the condition being monitored to evaluate the need for fu any, have been taken and/or are planned in response to	ture action? Use this space to comment. What actions, if	□ Immediate Action			
		□ Monitor for fu	ture		
		ri N/A			
Based on your answers to the above questions, is there re	ason to evaluate the need for a contingent remedy at this	□Yes			
time? If yes, use this space to comment.		□ Yes			
		D.No			
SSDS					
PID at effluent		٥.١	PPN		
Vacuum guage -		-0-75	Inch H20		
Vacuum Reading at the 8 vacuum monitorinbg points : \	VMP-1= ; VMP-2= ; VMP-3=	Inch H20			
Fan Condition		Dunction			
		□ Damage			
Alarm Condition		Euriction			
		□ Damage			
Was the Subslab Depressurization System (SSDS) operations. If "No," explain below why the system was not running, operational when leaving. If successful in making the SS		ILY es			

	□ No
Were all sub-slab vacuum readings less than of equal to - 0.01 inches of water? If "Yes," the SSDS is deemed still effective and the vacuum readings taken during this inspection are now the new baseline readings. If "No," system must be adjusted/amended and the SSDS re-commissioned. Discuss adjustments and	□ Yes
amendments below:	□ No
List below all pertinent observations and actions taken during this Inspection: i.e., sagging/damaged pipes, construction changes to building that may affect the system, pipe leaks that may nee has occupancy zoning changed (i.e. commercial to residential), are non-SSDS engineered systems still functioning as needed.	
Did you observe breaking or cracks in the slab cover	□ Yes
If yes describe the level of alteration needed for repairs and remedies?	



Inspector's name and title	Site Address	Date	
Donovan Edward	11-28 31 Drive, LIC, NY	4-16-21	
Remedy Description of Cover Systems		1001	
1. Review of the current remedy			
Identify the current remedy:			
45SDS			
How many SSDS Systems are used? One (1)			
2. Review of the current remedy goals			
What schedule has been established for monitoring of SSDS?	quarterly		
B. Summary of Remedy Performance Assessment			
1. Evaluate remedy effectiveness:			
Based on information collected since the last O&M review, do or could eventually fail to meet remedy goals?	monitoring data indicate that the system is failing	Yes	
C: the late of Marian Indiana and the late of the late	and in the street of a new annual value 2		
Since the last O&M review, have monitoring data exhibited tr	ends indicative of a new or renewed release?	□ Yes bevo	
Since the last O&M review, have changes in landuse been sug	□ Yes		
to reduce the protectiveness of the SSDS remedy?	0-No		
Since the last O&M review, have contaminants been iden concentrations where they pose or have the potential to pose	□ Yes		
contestination while any proof of the position to proof		620	
If you answered yes to any of the above questions, did the inf is the condition being monitored to evaluate the need for futu- if any, have been taken and/or are planned in response to the	re action? Use this space to comment. What actions,	□ Immediate Action	
if any, have been taken and or are planned in response to the	ICW MIGHINGOT:	□ Monitor for future	
		dN/A	
Based on your answers to the above questions, is there reason this time? If yes, use this space to comment.	to evaluate the need for a contingent remedy at	□ Yes	
and ance. It yes, use this space to continue.		□ No	
SSDS			
PID at effluent	T	O'O PPM	
Vacuum guage -		- 0 - 2 4 Inch H20	
Vacuum Reading at the 3 vacuum monitorinbg points: VMP	Inch H20		
Fan Condition	\	Function	
Al-		□ Damage	
Alarm Condition	□ Function □ Damage		
Was the Subslab Depressurization System (SSDS) operating u	pon arrival?		
If "No," explain below why the system was not running, effor operational when leaving. If successful in making the SSDS of	rts taken to restart the SSDS and if the system was	dYes	

	□ No			
Were all sub-slab vacuum readings less than of equal to - 0.01 inches of water? If "Yes," the SSDS is deemed still effective and the vacuum readings taken during this inspection are now the new baseline readings. If "No," system must be adjusted/amended and the SSDS re-commissioned. Discuss adjustments and	□ Yes			
amendments below:	□ No			
List below all pertinent observations and actions taken during this Inspection: i.e., sagging/damaged pipes, construction changes to building that may affect the system, pipe leaks that may need smoke test, is building still vacant, has occupancy zoning changed (i.e. commercial to residential), are non-SSDS engineered systems still functioning as designed etc. Add additional pages as needed.				
Did you observe breaking or cracks in the slab cover	□ Yes □ No			
If yes describe the level of alteration needed for repairs and remedies?				

APPENDIX 4 EC/IC INSPECTION AND CERTIFICATION FORM



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.	C241159				
Site	Name 11	-28 31st Drive				
City	Address: //Town: Qu unty: Queen Acreage:	s	Zip Code: 11106			
Rep	oorting Perio	od: April 20, 2020 to	April 20, 2021			
					YES	NO
1.	Is the infor	mation above correc	1?			Č,
	If NO, inclu	ude handwritten abov	re or on a separate sheet.			
2.		or all of the site prop mendment during this	erty been sold, subdivided, n Reporting Period?	nerged, or undergone a		4
3.		been any change of CRR 375-1.11(d))?	use at the site during this Re	porting Period		
4.		federal, state, and/or e property during this	local permits (e.g., building, Reporting Period?	discharge) been issued		V
			tions 2 thru 4, include docu previously submitted with			
5.	Is the site	currently undergoing	development?			
					Box 2	
					YES	NO
6.		ent site use consiste -Residential, Comme	nt with the use(s) listed below ercial, and Industrial	v?		
7.	Are all ICs	in place and function	ning as designed?	Œ.		
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.						
Sig	nature of Ov	wner, Remedial Party	or Designated Representative	Date		

				D 01	
				Box 2A	
				YES	NO
8.		that assumptions made in the Qua	litative Exposure		,
Assessment regarding offsite contamination are no longer valid?					
	If you answered VES to asset	n 8, include documentation or ev	idence		
		reviously submitted with this cert			
	·	•		m/	
9.	•	ative Exposure Assessment still vali sment must be certified every five ye			
		9, the Periodic Review Report m			
	updated Qualitative Exposure	Assessment based on the new ass	sumptions.		
6177	NO 0244450			Danie	2
SITE	E NO. C241159			Box	3
I	Description of Institutional Cont	rols			
Parce		Fatala II C	Institutional Control		
4-502	-22 GBT Real	Estate LLC	Soil Management P	lan	
			Ground Water Use	Restricti	ion
			Site Management F O&M Plan	lan	
			IC/EC Plan		
			Landuse Restriction Monitoring Plan	1	
	pition of use of groundwater withou				
	pliance with a soils management poliance with a site management pla				
Quarterly monitoring of groundwater					
Use	as restricted residential	ance Dies for CODO			
Com	pliance with Operations & Mainten	ance Plan for SSDS			
				Box	4
	Description of Engineering Cont	rois			
Parce		Engineering Control			
4-502	-22	Vanor Mitigation			
		Vapor Mitigation Monitoring Wells			
	lab depressurization system	_			
Grour	ndwater monitoring with treatment I	by ISCO if needed			

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 direct reviewed by, the party making the Engineering Control certification; 	tion of,	and
	b) to the best of my knowledge and belief, the work and conclusions described in are in accordance with the requirements of the site remedial program, and generate	n this ce ally acc	ertification epted
	engineering practices; and the information presented is accurate and compete.		NO
		1	
2.	For each Engineering control listed in Box 4, I certify by checking "YES" below that all following statements are true:	of the	
	(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 Del	oartmer	nt;
	(b) nothing has occurred that would impair the ability of such Control, to protect the environment;	public h	nealth and
	 (c) access to the site will continue to be provided to the Department, to evaluate remedy, including access to evaluate the continued maintenance of this Control; 	the	
	(d) nothing has occurred that would constitute a violation or failure to comply wind Site Management Plan for this Control; and	th the	
	(e) if a financial assurance mechanism is required by the oversight document for mechanism remains valid and sufficient for its intended purpose established in the	r the sit	te, the ment.
		YES	NO
		<u>i</u>	
	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 t	hese is	sues.
	Signature of Owner, Remedial Party or Designated Representative Date		

IC CERTIFICATIONS SITE NO. C241159

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.

Park I. Mathat 77 print name	Arkey Drive St. Hampsonge Ny print business address
	(Owner or Remedial Party)
for the Site named in the Site Details Section of thi	s form.
Signature of Owner, Remedial Party, or Designated Rendering Certification	S/2c/21 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.

print name at 77 Arkey Or St. K. Howppaye Ny. 1788

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

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)