



***Environmental, Planning, and Engineering Consultants***

440 Park Avenue South  
7th Floor  
New York, NY 10016  
tel: 212 696-0670  
fax: 929 284-1085  
[www.akrf.com](http://www.akrf.com)

August 14, 2024

Mr. Christopher Allan  
NYS Department of Environmental Conservation  
Division of Environmental Remediation, Remedial Bureau B  
625 Broadway, 12<sup>th</sup> Floor  
Albany, New York, 12233-7017

**Re: Quarterly Monitoring and Engineering Control System Inspection Report – 2024 2<sup>nd</sup> Quarter  
Newtown Creek Bud Site (NCBS) – North Block  
2-21 Malt Drive, Long Island City, New York  
BCP Site ID: C241248**

Dear Mr. Allan:

This Quarterly Monitoring and Engineering Control System Inspection Report has been prepared by AKRF, Inc. (AKRF), on behalf of Bud North LLC, to summarize routine post-remedial groundwater monitoring and sampling activities, and Sub-Slab Depressurization System (SSDS) and Soil Vapor Extraction System (SVES) inspections performed at the NCBS – North Block Brownfield Cleanup Program (BCP) Site located at 2-21 Malt Drive, Long Island City, New York (the “Site”, BCP Site No. C241248). The Site, which is also referred to as Block11, Lot 1 on the New York City Tax Map, is an approximately 130,915-square-foot parcel located in the Hunter’s Point South section of Long Island City, New York. Currently, the Site consists of a multi-story mixed use commercial and residential building that is under construction. A Site location map is provided as Figure 1, and a Site plan is provided as Figure 2.

The Volunteer entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in January 2022, to investigate and remediate the Site. The Site was remediated to Restricted Residential Use, and the SSDS and SVES began operation on September 27, 2023. AKRF’s Final Engineering Report (FER) and Site Management Plan (SMP) were approved by NYSDEC, resulting in the issuance of a Certificate of Completion (CoC) on December 29, 2023.

Ongoing Site management activities are being performed in accordance with the SMP. Post-remediation monitoring and inspection activities conducted at the Site for the second quarter of 2024 included the following activities as described in this letter report:

- One quarterly groundwater sampling event (June 12, 2024); and
- One quarterly detailed routine inspection (June 12, 2024) of the operating SSDS/SVES.

The next quarterly inspection of the SSDS and SVES and groundwater monitoring will be performed in the third quarter of 2024, which will be documented in the Quarterly Report for the third quarter of 2024.

**Background**

The Remedial Investigation (RI) determined that the nature and extent of contaminated soil, groundwater, and soil vapor present at the Site consisted of the following contaminants: volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, metals,

and per- and poly-fluoroalkyl substances (PFAS) in soil/fill; chlorinated solvent and petroleum-related VOCs and dichlorodifluoromethane (Freon-12) in soil vapor; and petroleum-related VOCs, Freon-12, polyaromatic hydrocarbons (PAHs), PCBs, metals, and PFAS in groundwater. A figure presenting groundwater sample results from the RI is included for comparison to this quarter's sampling results as Figure 3.

The remedial action included excavation and off-site disposal of source material in soil and implementation of a groundwater treatment program consisting of mechanical mixing of Regenesi<sup>®</sup> ORC Advanced<sup>®</sup> and PersulfOx<sup>®</sup> in the southwestern portion of the Site. Additionally, engineering controls were constructed at the Site, including installation of an SSDS, SVES, and a site-wide cover system. On November 28, 2022 and December 1, 2022, post-remedial groundwater samples were collected from two post-remedial groundwater monitoring wells installed within the Site boundary (MW-01, MW-02, and MW-03) and submitted for laboratory analysis of VOCs. The post-remedial groundwater samples collected from the Site indicated that petroleum-related VOCs, including benzene, ethylbenzene, xylenes, toluene (collectively referred to as BTEX), and 1,2,4-trimethylbenzene were still present in groundwater at the Site above the Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards and Guidance Values (AWQSGVs). A figure presenting the post-remedial groundwater sample results is included as Figure 4.

### **Quarterly Groundwater Monitoring**

This quarterly monitoring report comprises a summary of the findings from the monitoring, sampling, and associated analytical reports and field sampling logs during the second quarter of 2024. In accordance with SMP, further assessment (and recommendations, if necessary) will be provided in the annual Periodic Review Report (PRR).

#### Field Methods

On June 12, 2024, groundwater samples were collected from the three on-site monitoring wells (MW-01, MW-02, and MW-03) in accordance with United States Environmental Protection Agency (EPA) low flow sampling methodology and the Site-specific Quality Assurance and Project Plan (QAPP) and Field Sampling Plan (FSP), which are included as Appendix H of the SMP. Matrix spike/matrix spike duplicates (MS/MSD) samples and a blind duplicate sample were taken and analyzed from well MW-01. Groundwater samples were collected using dedicated and decontaminated sampling equipment.

Prior to collecting the groundwater samples, the depth to groundwater and the total well depth were measured at each of the groundwater monitoring wells using an oil/water interface probe attached to a measuring tape accurate to 0.01 foot. A sulfur-like odor was observed in two of the wells (MW-01 and MW-02). All purge water from the groundwater monitoring wells was containerized in a labeled, NYSDOT-approved 55-gallon drum for off-site disposal at a permitted facility. Groundwater sampling logs are provided in Attachment A.

The groundwater samples were collected and submitted to Pace Analytical of Westborough, Massachusetts (Pace), a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory for analysis of VOCs by EPA Method 8260D and Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Oil Range Organics (ORO) with Category B deliverables. A trip blank sample and blind duplicate sample were also sent with the samples for VOC analysis.

#### Results

Petroleum-related VOCs, including benzene, ethylbenzene, toluene, and xylenes (collectively referred to as BTEX) were detected in groundwater samples MW-01 and MW-02 (plus the blind duplicate sample). Benzene was detected at concentrations that exceeded the AWQSGV limitations of 1 µg/L, in both monitoring wells MW-01 and MW-02. Benzene was detected at a concentration of 3.2 µg/L in both wells. TPH DRO was detected in MW-01 and MW-02 at concentrations of 10.1 µg/L and 18.5 µg/L, respectively, and TPH ORO was detected in all three wells at concentrations between 75.8 µg/L (MW-03) and 288 µg/L (MW-02). A summary of the second quarter 2024 groundwater sample results is provided in Table 1 with

concentrations over time provided in Table 2. The complete data analytical report and Data Usability Summary Report (DUSR) are provided in Attachment B.

### Third-Party DUSR Results

Third-party data validation was performed by Jeri Rossi of Cranford, NJ, and a DUSR was prepared (Attachment B), which confirmed usability of the data with additional qualifiers. Validated electronic data deliverables (EDDs) will be submitted to NYSDEC via the Environmental Quality Information System (EQuIS™).

### SSDS Inspection

The summary of the inspection conducted in the second quarter of 2024 (on June 12, 2024), is provided in the sections below, and all observations and readings collected during the inspection were recorded on the SSDS Monitoring Inspection Form included in Attachment C. The layout of the SSDS is shown on Figure 5. The following items were inspected and noted to conform to the design standards or did not require additional maintenance during the completion of the Quarterly Monitoring Inspection of the SSDS:

- The SSDS blower was operating and air was discharging through the exhaust piping;
- Confirmation that the pressure and air flow rate gauges were clean and within normal ranges;
- Confirmation that the blower effluent photoionization detector readings and temperatures were within acceptable ranges;
- The concrete floor slab overlying the SSDS piping was intact;
- Confirmation that the exterior control panel was clean; and
- Confirmation of the structural integrity of exhaust stack on the roof of the Site building.

The induced vacuum levels collected from the SSDS monitoring points (MP-01 through MP-14) ranged from 1.143 to 0.512 inches of water (in H<sub>2</sub>O) as summarized in Table I. The applied vacuum in SSDS points (SSDS-N1 through SSDS-N16) ranged from 1.6 to 2.3 in H<sub>2</sub>O, and the air flow rate ranged from 5 standard cubic feet per minute (SCFM) to 52 SCFM, with the exception of one gauge (SSDS-N4), which indicated no flow rate. Based on the applied vacuum, this gauge was likely not functioning properly. The gauge will be replaced during the next inspection, if necessary.

**Table I**  
**SSDS Monitoring Point Vacuum Readings – June 2024**

Monitoring Point	Vacuum (in. H <sub>2</sub> O)
MP-1	1.02
MP-2	1.14
MP-3	0.96
MP-4	0.72
MP-5	1.04
MP-6	1.01
MP-7	0.92
MP-8	1.06
MP-9	0.52
MP-10	0.97
MP-11	0.64
MP-12	0.98
MP-13	0.93
MP-14	0.89

## SVES Inspection

The summary of the inspection conducted in the second quarter of 2024 (in June 2024), is provided in the sections below, and all observations and readings collected during the inspection were recorded on the SVES Monthly System Inspection Form included in Attachment C, and the system layout is presented in Figure 5. The following items were inspected and noted to conform to the design standards or did not require additional maintenance during the completion of the Monthly Inspection of the SVES:

- The system was cycled on this month;
- That condensate in the knockout tank gauge is below the low-high float sensor;
- The SVES blower and transfer pump are currently operating properly; and
- Confirmation that the vacuum and air flow gauges were clean and within normal ranges.

The vacuum level of the SVE monitoring points (SVMP-01 through SVMP-06) ranged from 1.131 to 0.867 in H<sub>2</sub>O as summarized in Table II, and the well air flow rates for SVE-01 through SVE-05 ranged from 5 to 44 CFM.

**Table II**  
**SVE Monitoring Point Vacuum Readings – June 2024**

Monitoring Point	Vacuum (in. H <sub>2</sub> O)
SVMP-1	1.02
SVMP-2	0.98
SVMP-3	1.13
SVMP-4	0.87
SVMP-5	0.71
SVMP-6	0.90

## Conclusions

### Groundwater Monitoring

The groundwater monitoring and sampling results indicated that while benzene is still present in groundwater above AWQSGVs in groundwater in the southwestern portion of the Site (MW-01 and MW-02), there was a significant reduction of petroleum VOCs in groundwater from post-remediation to present-day. TPH-DRO and ORO were also detected at variable concentrations in groundwater at all three monitoring well locations (including the upgradient monitoring well location), suggesting the detections may be at least partially due to regional groundwater quality. The favorable (low) post-remedial groundwater results indicate that a reduction in the frequency and duration of the required groundwater monitoring program as per the SMP is warranted.

### SSDS Inspection

The vacuum and flow rate readings collected at the SSDS the monitoring points and manifolds indicated that 15 of the riser legs are operating properly at the Site, with the exception of one air flow gauge that may be damaged.

### SVES Inspection and Soil Vapor Effluent Sampling

The vacuum and flow rate readings collected at the SVES the monitoring points and manifold indicated that the post-blower pressure slightly exceeds the expected level, and overall the system is operating properly at the Site.

**Scheduled Activities**

In accordance with the SMP, the following is required following approval of the SMP:

- Eight post-remedial quarterly groundwater monitoring and sampling events in the first two years after SMP approval,
- Ongoing quarterly SSDS and SVES routine operations inspections, and
- Ongoing annual SSDS and SVES detailed operations inspections.

The next quarterly groundwater sampling event, SSDS inspection, and SVES inspection is scheduled to be performed during the third quarter of 2024 (September of 2024). Based upon the post-remediation groundwater monitoring data continuing to show significant reductions in contaminant concentrations, we respectfully request that NYSDEC approve a reduction in the required groundwater requirements as outlined in the SMP. Specifically, we request that the groundwater monitoring be reduced to semi-annually (next event being in December 2024), with the requirement for continued groundwater monitoring be reevaluated at that time. Any changes to the groundwater monitoring requirements approved by NYSDEC would be reflected in an updated SMP.

If you have any questions regarding the information presented herein, please contact Patrick Diggins at (914) 922-2784 or Marc Godick at (914) 922-2356.

Sincerely,  
AKRF, Inc.



Marc S. Godick, LEP  
Senior Vice President



J. Patrick Diggins  
Senior Technical Director

In-Text Table:	Table I Table II	SSDS Monitoring Point Vacuum Readings – June 2024 SVE Monitoring Point Vacuum Readings – June 2024
Attachments:	Table 1 Table 2 Table 3 Table 4  Figure 1 Figure 2 Figure 3 Figure 4 Figure 5  Attachment A Attachment B Attachment C	Post-Remedial Groundwater Concentrations – June 2024 Post-Remedial Groundwater Concentrations Over Time Post-Remedial Soil Vapor Concentrations – June 2024 Post-Remedial Soil Vapor Concentrations Over Time  BCP Site Location BCP Site Plan Remedial Investigation Groundwater Sample Results Post-Remedial Groundwater Sample Results – June 2024 SSDS and SVES Layout  Groundwater Sampling Logs Laboratory Analytical Reports and DUSRs SSDS and SVES Inspection Logs

cc (electronic copy only):

- Andre Obligado, Jane O’Connell – NYSDEC
- Bruce Weill, Nicholas Vasta, Frank Vasta, George Georgioudakis – Bud North LLC
- Rebecca Kinal, P.E. – AKRF

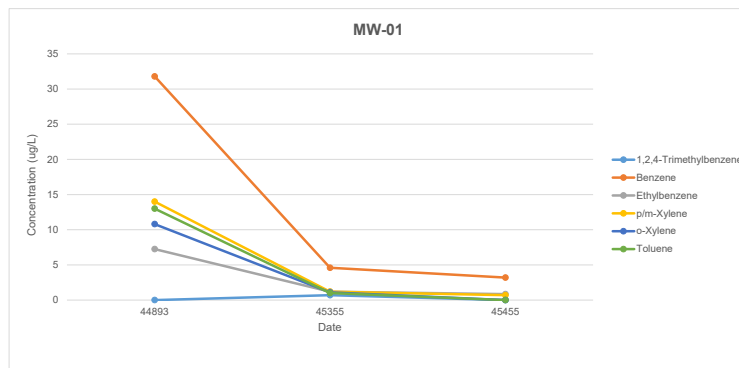
## **TABLES**

**Table 1**  
**Newtown Creek Bud Site – North Block**  
**2-21 Malt Drive, Long Island City, NY**  
 Post-Remedial Groundwater Concentrations - June 2024  
 VOCs and TPH

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor	MW-1_20240612 L2433259-05 6/12/2024 µg/L 1	MW-X_20240612 L2433259-02 6/12/2024 µg/L 1	MW-2_20240612 L2433259-01 6/12/2024 µg/L 1	MW-3_20240612 L2433259-06 6/12/2024 µg/L 1
	AWQSGV	CONC Q	CONC Q	CONC Q
<b>Volatile Organic Compounds (VOCs)</b>				
1,1,1,2-Tetrachloroethane	5	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	NR	NR	NR
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U	0.79 J	0.84 J
1,2-Dibromo-3-Chloropropane	0.04	2.5 UJ	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	2 U	2 U	2 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	NS	2 U	2 U	2 U
2,2-Dichloropropane	5	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	2.5 U	2.5 U	2.5 U
2-Hexanone	50	5 U	5 U	5 U
4-Chlorotoluene	5	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	NS	2 U	2 U	2 U
Acetone	50	5 U	5 U	10
Acrolein	5	NR	NR	NR
Acrylonitrile	5	5 U	5 U	5 U
Benzene	1	3.2	3.2	0.5 U
Bromobenzene	5	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U
Bromoform	50	2 UJ	2 UJ	2 UJ
Bromomethane	5	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	5 U	5 U	5 U
Carbon Tetrachloride	5	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U
Chloromethane	5	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U
Cyclohexane	NS	NR	NR	NR
Cymene	5	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U
Dibromomethane	5	5 U	5 U	5 U
Dichlorodifluoromethane	5	5 U	5 U	5 U
Dichloroethylenes	NS	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	NS	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	0.85 J	0.79 J	0.8 J
Isopropylbenzene (Cumene)	5	2.5 U	2.5 U	2.5 U
m,p-Xylenes	5	0.7 J	2.5 U	0.76 J
Methyl Acetate	NS	NR	NR	NR
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U
Methylcyclohexane	NS	NR	NR	NR
Methylene Chloride	5	2.5 U	2.5 U	2.5 U
n-Butylbenzene	5	2.5 U	2.5 U	2.5 U
n-Propylbenzene	5	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U
t-Butylbenzene	5	2.5 U	2.5 U	2.5 U
Tert-Butyl Alcohol	NS	NR	NR	NR
Tert-Butyl Methyl Ether	10	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	0.8 J	0.85 J
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	5	2.5 UJ	2.5 U	2.5 U
Trichloroethylene (TCE)	5	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U
Vinyl Acetate	NS	5 U	5 U	5 U
Vinyl Chloride	2	1 U	1 U	1 U
Xylenes, Total	NS	0.7 J	2.5 U	0.76 J
Total Petroleum Hydrocarbons (TPH)	NS			
TPH - Diesel Range Organics (C10 - C28)		213	304	288
TPH - Oil Range Organics	NS	10.1 J	10.8	18.5

**Table 2**  
**Newtown Creek Bud Site – North Block**  
**2-21 Malt Drive, Long Island City, NY**  
 Post-Remedial Groundwater Concentrations Over Time  
 VOCs and TPH

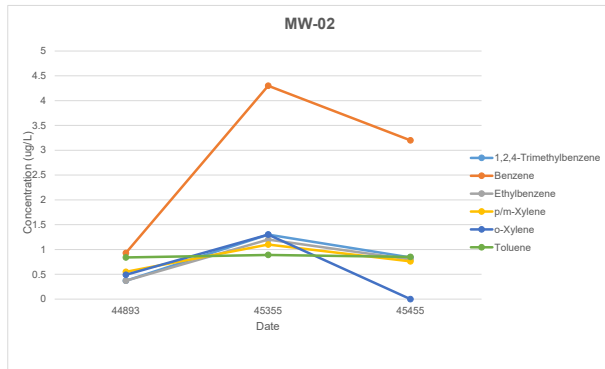
AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor	MW-01_20221128	DUP-01_20221128	MW-01_20240304	MW-1_20240612	MW-X_20240612	
	22K1477-01 11/28/2022 µg/L 25	22K1477-02 11/28/2022 µg/L 25	L2411621-01 3/04/2024 µg/L 1	L2433259-05 6/12/2024 µg/L 1	L2433259-02 6/12/2024 µg/L 1	
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	
<b>Volatile Organic Compounds (VOCs)</b>						
1,1,1,2-Tetrachloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	5 U	5 U	NR	NR	NR
1,1,2-Trichloroethane	1	5 U	5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	5 U	5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	5 U	5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	NR	NR	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	NR	NR	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	5 U	7 JD	0.7 J	2.5 U	0.79 J
1,2-Dibromo-3-Chloropropane	0.04	NR	NR	2.5 UJ	2.5 UJ	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	NR	NR	2 U	2 U	2 U
1,2-Dichlorobenzene	3	NR	NR	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	5 U	5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	5 U	5 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	5 U	5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	5 U	5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	NR	NR	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	NS	NR	NR	2 U	2 U	2 U
2,2-Dichloropropane	5	5 UJ	5 UJ	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	NS	NR	NR	2 U	2 U	2 U
Acetone	50	25 UJ	25 UJ	1.7 J	5 U	5 U
Acrolein	5	5 UJ	5 UJ	NR	NR	NR
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U
Benzene	1	31.8 D	34.2 D	4.6	3.2	3.2
Bromobenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	5 U	5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	5 U	5 U	2 UJ	2 UJ	2 UJ
Bromomethane	5	5 UJ	5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	7.5 JD	8 JD	2.2 J	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	5 U	5 U	7	2.5 U	2.5 U
Chloromethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	NS	5 U	5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NS	5 U	5 U	NR	NR	NR
Cymene	5	NR	NR	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	5 U	5 U	0.5 UJ	0.5 U	0.5 U
Dibromomethane	5	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	5 U	5 U
Dichloroethylenes	NS	NR	NR	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	NS	NR	NR	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	7.25 JD	8.25 JD	1.2 J	0.85 J	0.79 J
Isopropylbenzene (Cumene)	5	5 U	5 U	2.5 U	2.5 U	2.5 U
M,P-Xylenes	5	14 JD	15 JD	1.2 J	0.7 J	2.5 U
Methyl Acetate	NS	5 U	5 U	NR	NR	NR
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	5 U	5 U	NR	NR	NR
Methylene Chloride	5	25 U	25 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	10.8 JD	11.8 JD	1.1 J	0.8 J	2.5 U
Sec-Butylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Styrene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Alcohol	NS	12.5 U	12.5 U	NR	NR	NR
Tert-Butyl Methyl Ether	10	5 U	5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	5 U	5 U	0.5 U	0.5 U	0.5 U
Toluene	5	13 D	14.2 D	5	2.5 U	0.8 J
Total 1,3-Dichloropropene (Cis And Trans)	0.4	NR	NR	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	5 U	5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	5	NR	NR	2.5 UJ	2.5 UJ	2.5 U
Trichloroethylene (TCE)	5	5 U	5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	NS	NR	NR	5 U	5 U	5 U
Vinyl Chloride	2	5 U	5 U	1 U	1 U	1 U
Xylenes, Total	NS	24.8 JD	26.8 JD	2.3 J	0.7 J	2.5 U
Total Petroleum Hydrocarbons (TPH)	NS					
TPH - Diesel Range Organics (C10 - C28)	NS	NT	NT	401	213	304
TPH - Oil Range Organics	NS	NT	NT	41.9	10.1 J	10.8





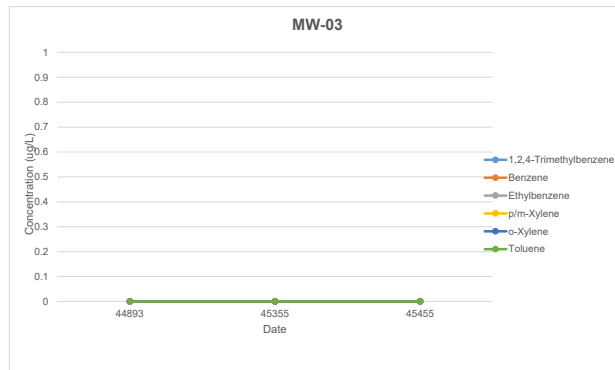
**Table 2**  
**Newtown Creek Bud Site – North Block**  
**2-21 Malt Drive, Long Island City, NY**  
 Post-Remedial Groundwater Concentrations Over Time  
 VOCs and TPH

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor	MW-02_20221201	MW-02_20240304	MW-0X_20240304	MW-2_20240612
	22/01/2022 µg/L	3/04/2024 µg/L	3/04/2024 µg/L	6/12/2024 µg/L
Compound	AWQSGV	CONC Q	CONC Q	CONC Q
<b>Volatile Organic Compounds (VOCs)</b>				
1,1,1,2-Tetrachloroethane	5	0.2 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	0.2 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.2 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	0.2 U	NR	NR
1,1,2-Trichloroethane	1	0.2 U	1.5 U	1.5 U
1,1-Dichloroethane	5	0.2 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.2 U	0.5 U	0.5 U
1,1-Dichloropropene	5	0.2 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	0.2 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	0.2 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	NR	2 U	2 U
1,2,4-Trichlorobenzene	5	NR	2.5 U	2.5 U
1,2,4-Trimethylbenzene	6	0.37 J	1.3 J	1.2 J
1,2-Dibromo-3-Chloropropane	0.04	NR	2.5 UJ	2.5 UJ
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	NR	2 U	2 U
1,2-Dichlorobenzene	3	NR	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.2 U	0.5 U	0.5 U
1,2-Dichloropropane	1	0.2 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.2 U	2.5 U	2.5 U
1,3-Dichloropropane	5	0.2 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	NR	2.5 U	2.5 U
1,4-Diethyl Benzene	NS	NR	2 U	2 U
2,2-Dichloropropane	5	0.2 UJ	2.5 U	2.5 U
2-Chlorotoluene	5	0.2 U	2.5 U	2.5 U
2-Hexanone	50	0.2 U	5 U	5 U
4-Chlorotoluene	5	0.2 U	2.5 U	2.5 U
4-Ethyltoluene	NS	NR	2 U	2 U
Acetone	50	1 UJ	5 U	5 U
Acrolein	5	0.2 UJ	NR	NR
Acrylonitrile	5	0.2 U	5 U	5 U
Benzene	1	0.93	4.3	4
Bromobenzene	5	0.2 U	2.5 U	2.5 U
Bromochloromethane	5	0.2 U	2.5 U	2.5 U
Bromodichloromethane	50	0.2 U	0.5 U	0.5 U
Bromofrom	50	0.2 U	2 UJ	2 UJ
Bromomethane	5	0.2 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	0.29 J	1.5 J	1.2 J
Carbon Tetrachloride	5	0.2 U	0.5 U	0.5 U
Chlorobenzene	5	0.2 U	2.5 U	2.5 U
Chloroethane	5	0.2 U	2.5 U	2.5 U
Chloroform	7	0.2 U	2.5 U	2.5 U
Chloromethane	5	0.2 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	0.2 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	NS	0.2 U	0.5 U	0.5 U
Cyclohexane	NS	0.2 U	NR	NR
Cymene	5	NR	2.5 U	2.5 U
Dibromochloromethane	50	0.2 U	0.5 UJ	0.5 UJ
Dibromomethane	5	0.2 U	5 U	5 U
Dichlorodifluoromethane	5	1.16	5 U	5 U
Dichloroethylenes	NS	NR	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	NS	NR	2.5 U	2.5 U
Ethylbenzene	6	0.37 J	1.2 J	1.1 J
Isopropylbenzene (Cumene)	5	0.2 U	2.5 U	2.5 U
m,p-Xylenes	5	0.55 J	1.1 J	1 J
Methyl Acetate	NS	0.2 U	NR	NR
Methyl Ethyl Ketone (2-Butanone)	50	0.29 J	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	0.2 U	5 U	5 U
Methylcyclohexane	NS	0.2 U	NR	NR
Methylene Chloride	5	1 U	2.5 U	2.5 U
n-Butylbenzene	5	0.2 UJ	2.5 U	2.5 U
n-Propylbenzene	5	0.2 U	2.5 U	2.5 U
o-Xylene (1,2-Dimethylbenzene)	6	0.49 J	1.3 J	1.2 J
Sec-Butylbenzene	5	0.2 U	2.5 U	2.5 U
Styrene	5	0.2 U	2.5 U	2.5 U
t-Butylbenzene	5	0.2 U	2.5 U	2.5 U
Tert-Butyl Alcohol	NS	0.5 U	NR	NR
Tert-Butyl Methyl Ether	10	0.2 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	0.2 U	0.5 U	0.5 U
Toluene	5	0.84	0.89 J	0.82 J
Total_1,3-Dichloropropene (Cis And Trans)	0.4	NR	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	0.2 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	0.2 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	5	NR	2.5 UJ	2.5 UJ
Trichloroethylene (TCE)	5	0.2 U	0.5 U	0.5 U
Trichlorofluoromethane	5	0.41 J	2.5 U	2.5 U
Vinyl Acetate	NS	NR	5 U	5 U
Vinyl Chloride	2	0.2 U	1 U	1 U
Xylenes, Total	NS	1.04 J	2.4 J	2.2 J
<b>Total Petroleum Hydrocarbons (TPH)</b>				
TPH - Diesel Range Organics (C10 - C28)	NS	NT	429	469
TPH - Oil Range Organics	NS	NT	26.6	23.7



**Table 2**  
**Newtown Creek Bud Site – North Block**  
**2-21 Malt Drive, Long Island City, NY**  
 Post-Remedial Groundwater Concentrations Over Time  
 VOCs and TPH

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor	MW-03_20221201	MW-03_20240304	MW-3_20240612
	22L0110-01 12/01/2022 µg/L 1	L241 1621-03 3/04/2024 µg/L 1	L2433259-06 6/12/2024 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q
<b>Volatile Organic Compounds (VOCs)</b>			
1,1,1,2-Tetrachloroethane	5	0.2 U	2.5 U
1,1,1-Trichloroethane	5	0.2 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.2 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	0.2 U	NR
1,1,2-Trichloroethane	1	0.2 U	1.5 U
1,1-Dichloroethane	5	0.2 U	2.5 U
1,1-Dichloroethene	5	0.2 U	0.5 U
1,1-Dichloropropene	5	0.2 U	2.5 U
1,2,3-Trichlorobenzene	5	0.2 U	2.5 U
1,2,3-Trichloropropane	0.04	0.2 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	NR	2 U
1,2,4-Trichlorobenzene	5	NR	2.5 U
1,2,4-Trimethylbenzene	5	0.2 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	NR	2.5 UJ
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	NR	2 U
1,2-Dichlorobenzene	3	NR	2.5 U
1,2-Dichloroethane	0.6	0.2 U	0.5 U
1,2-Dichloropropane	1	0.2 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.2 U	2.5 U
1,3-Dichloropropane	5	0.2 U	2.5 U
1,4-Dichlorobenzene	3	NR	2.5 U
1,4-Diethyl Benzene	NS	NR	2 U
2,2-Dichloropropane	5	0.2 UJ	2.5 U
2-Chlorotoluene	5	0.2 U	2.5 U
2-Hexanone	50	0.2 U	5 U
4-Chlorotoluene	5	0.2 U	2.5 U
4-Ethyltoluene	NS	NR	2 U
Acetone	50	1 UJ	5 U
Acrolein	5	0.2 UJ	NR
Acrylonitrile	5	0.2 U	5 U
Benzene	1	0.2 U	0.5 U
Bromobenzene	5	0.2 U	2.5 U
Bromochloromethane	5	0.2 U	2.5 U
Bromodichloromethane	50	0.2 U	0.5 U
Bromoform	50	0.2 U	2 UJ
Bromomethane	5	0.2 UJ	2.5 UJ
Carbon Disulfide	60	0.2 U	5 U
Carbon Tetrachloride	5	0.2 U	0.5 U
Chlorobenzene	5	0.2 U	2.5 U
Chloroethane	5	0.2 U	2.5 U
Chloroform	7	0.2 U	2.5 U
Chloromethane	5	0.2 U	2.5 U
Cis-1,2-Dichloroethylene	5	0.2 U	2.5 U
Cis-1,3-Dichloropropene	NS	0.2 U	0.5 U
Cyclohexane	NS	0.2 U	NR
Cymene	5	NR	2.5 U
Dibromochloromethane	50	0.2 U	0.5 UJ
Dibromomethane	5	0.2 U	5 U
Dichlorodifluoromethane	5	0.2 U	5 U
Dichloroethylenes	NS	NR	2.5 U
Diethyl Ether (Ethyl Ether)	NS	NR	2.5 U
Ethylbenzene	5	0.2 U	2.5 U
Isopropylbenzene (Cumene)	5	0.2 U	2.5 U
m,p-Xylenes	5	0.5 U	2.5 U
Methyl Acetate	NS	0.2 U	NR
Methyl Ethyl Ketone (2-Butanone)	50	0.2 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	0.2 U	5 U
Methylcyclohexane	NS	0.2 U	NR
Methylene Chloride	5	1 U	2.5 U
n-Butylbenzene	5	0.2 UJ	2.5 U
n-Propylbenzene	5	0.2 U	2.5 U
o-Xylene (1,2-Dimethylbenzene)	5	0.2 U	2.5 U
Sec-Butylbenzene	5	0.2 U	2.5 U
Styrene	5	0.2 U	2.5 U
t-Butylbenzene	5	0.2 U	2.5 U
Tert-Butyl Alcohol	NS	0.98 U	NR
Tert-Butyl Methyl Ether	10	0.2 U	2.5 U
Tetrachloroethylene (PCE)	5	0.2 U	0.5 U
Toluene	5	0.2 U	2.5 U
Total 1,3-Dichloropropene (Cis And Trans)	0.4	NR	0.5 U
Trans-1,2-Dichloroethene	5	0.2 U	2.5 U
Trans-1,3-Dichloropropene	NS	0.2 U	0.5 U
Trans-1,4-Dichloro-2-Butene	5	NR	2.5 UJ
Trichloroethylene (TCE)	5	0.2 U	0.5 U
Trichlorofluoromethane	5	0.2 U	2.5 U
Vinyl Acetate	NS	NR	5 U
Vinyl Chloride	2	0.2 U	1 U
Xylenes_Total	NS	0.6 U	2.5 U
Total Petroleum Hydrocarbons (TPH)	NS		
TPH - Diesel Range Organics (C10 - C28)	NS	NT	88.2
TPH - Oil Range Organics	NS	NT	3.12 U



**Tables 1-2**  
**Newtown Creek Bud Site – North Block**  
**2-21 Malt Drive, Long Island City, NY**  
Post-Remedial Groundwater Concentrations  
*Notes*

**DEFINITIONS**

**D** : Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.

**J** : The concentration given is an estimated value.

**ND** : The standard is a non-detectable concentration by the approved analytical method.

**NR** : Not reported.

**NS** : No standard.

**NT** : Not tested.

**U** : The analyte was not detected at the indicated concentration.

**UJ** : The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

**µg/L** : micrograms per liter

**STANDARDS**

**NYSDEC** : New York State Department of Environmental Conservation (NYSDEC) Technical and Operational  
**Class GA** : Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values  
**AWQSGVs** (AWQSGVs).

**Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font.**

**DUPLICATES**

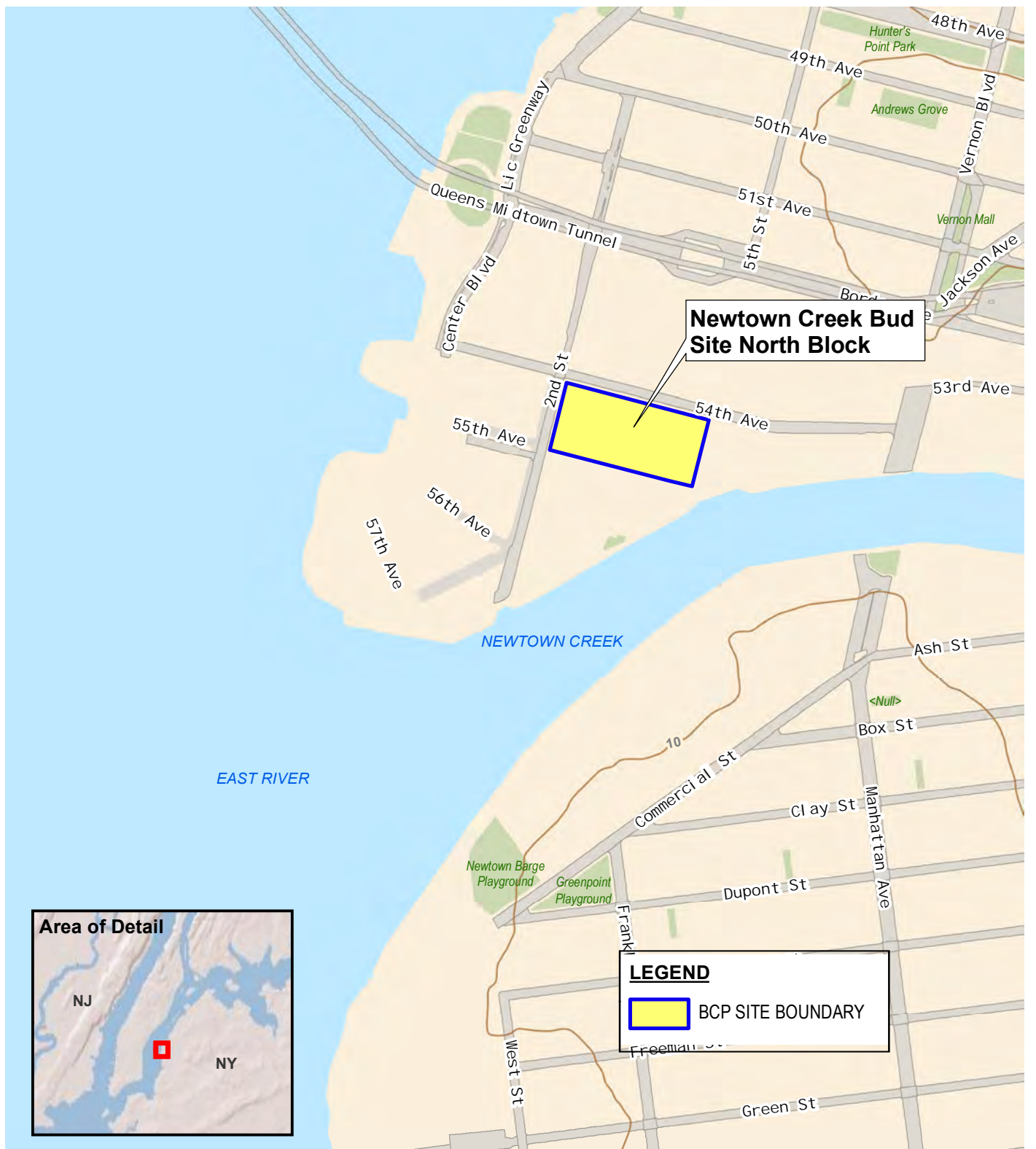
DUP-01\_20221128 is a blind duplicate of sample MW-01\_20221128

MW-0X\_20240304 is a blind duplicate of sample MW-02\_20240304

MW-X\_20240612 is a blind duplicate of sample MW-1\_20240612

## **FIGURES**

© 2021 AKRF W:\Projects\200112 - BUD NORTH\Technical\GIS and Graphics\shazmat\200112 Fig 1 site location map.mxd/25/2021 1:14:13 AM iszalus



440 Park Avenue South, New York, NY 10016

**Newtown Creek Bud Site - North Block**  
2-10 54th Avenue - Long Island City, New York

**BCP SITE LOCATION**

DATE

**11/29/2021**

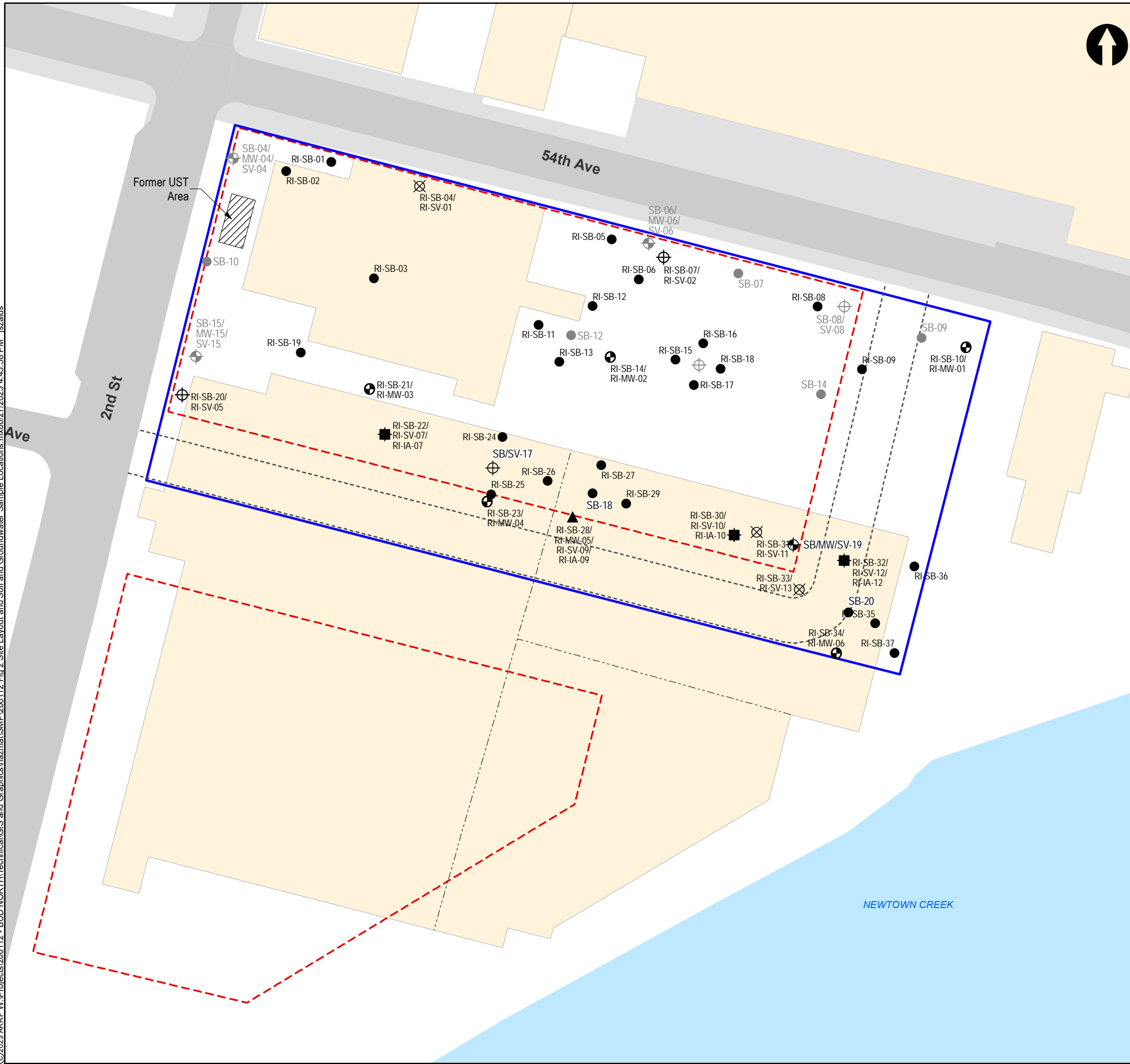
PROJECT NO.

**200112**

FIGURE

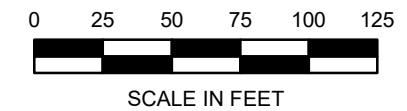
**1**

©2023 AKRF W:\Projects\200112 - BUD NORTH\Technical\GIS and Graphics\hazmat\SMP\200112\_Fig 2 Site Layout and Soil and Groundwater Sample Locations.mxd 6/27/2023 4:45:58 PM iszalus



**LEGEND**

- BCP SITE AND ENVIRONMENTAL EASEMENT BOUNDARY
  - NEW BUILDING FOOTPRINT
  - FORMER BUILDING
  - PREVIOUS SOIL BORING LOCATION
  - PREVIOUS SOIL BORING/GROUNDWATER/SOIL VAPOR POINT LOCATION
  - PREVIOUS SOIL BORING/SOIL VAPOR POINT LOCATION
  - RI SOIL BORING
  - RI SOIL BORING/MONITORING WELL
  - RI SOIL BORING/MONITORING WELL/SOIL VAPOR POINT/INDOOR AIR SAMPLE LOCATION
  - RI SOIL BORING/SUB-SLAB LOCATION
  - RI SOIL BORING/SOIL VAPOR POINT
  - RI SOIL BORING/SOIL VAPOR POINT/INDOOR
- UST UNDERGROUND STORAGE TANK



**Newtown Creek Bud Site - North Block**  
2-21 Malt Drive - Long Island City, New York

**SITE LAYOUT AND SOIL AND GROUNDWATER SAMPLE LOCATIONS**

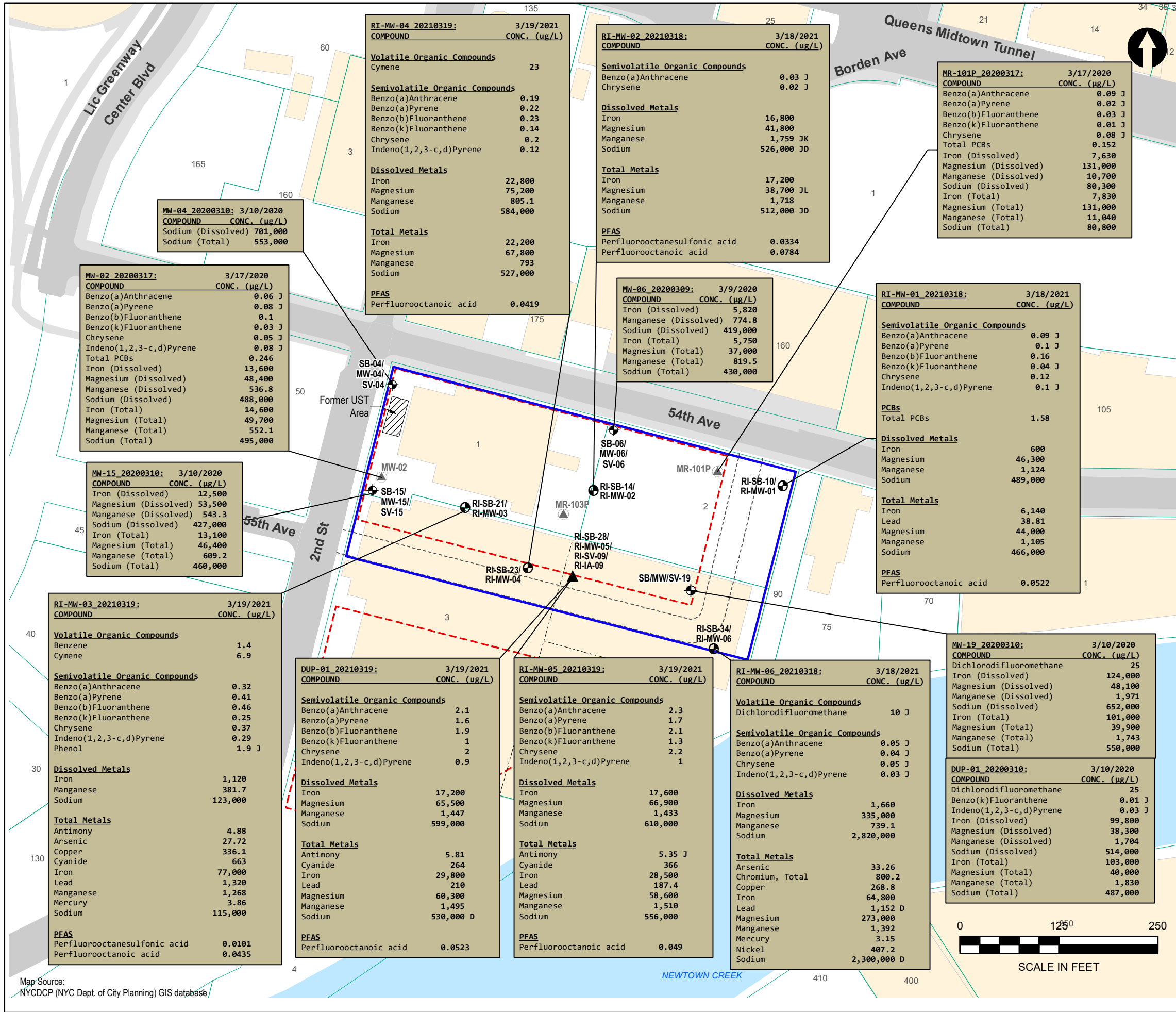
DATE  
**6/27/2023**

PROJECT NO.  
**200112**

FIGURE  
**2**



©2021 AKRF W:\Projects\200112 - BUD NORTH\Technical\GIS and Graphics\hazmat\RAW\200112 Fig 5 Groundwater Sample Concentrations Above AWQSGVs and Screening Levels.mxd/8/22/2021 12:08:54 PM jszalus



**LEGEND**

- BCP SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE LOCATION OF PROPOSED ROAD
- LOT BOUNDARY
- EXISTING MONITORING WELL LOCATION
- SOIL BORING/GROUNDWATER/SOIL VAPOR WITHIN PLANNED BUILDING FOOTPRINT
- RI SOIL BORING/MONITORING WELL
- RI SOIL BORING/MONITORING WELL/SOIL VAPOR POINT/INDOOR AIR SAMPLE LOCATION

**NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs) and/or Screening Levels:**

New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):

µg/L: micrograms per Liter = parts per billion (ppb)

**PFOA: Perfluorooctanoic acid**  
**PFAS: Per- and polyfluoroalkyl substances**

**Only Exceedances of NYSDEC AWQSGVs are shown in bold font.**

J: The concentration given is an estimated value.  
D: Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.  
K: Reported concentration value is proportional to dilution factor and may be exaggerated  
L: Sample result is estimated and biased low.

DUP-01\_20210319 is a blind duplicate of sample RI-MW-05\_20210319

	NYSDEC AWQSGVs ug/l	NYSDEC PFAS Screening Levels ug/l
<b>Volatile Organic Compounds</b>		
Benzene	1	
Cymene	5	
Dichlorodifluoromethane	5	
<b>Semivolatile Organic Compounds</b>		
Benzo(a)Anthracene	0.002	
Benzo(a)Pyrene	0	
Benzo(b)Fluoranthene	0.002	
Benzo(k)Fluoranthene	0.002	
Chrysene	0.002	
Indeno(1,2,3-c,d)Pyrene	0.002	
Phenol	1	
<b>PCBs</b>		
Total PCBs	0.09	
<b>Metals</b>		
Antimony	3	
Arsenic	25	
Chromium, Total	50	
Copper	200	
Cyanide	200	
Iron	300	
Lead	25	
Magnesium	35,000	
Manganese	300	
Mercury	0.7	
Nickel	100	
Sodium	20,000	
<b>PFAS</b>		
Perfluorooctanesulfonic acid		0.01
Perfluorooctanoic acid		0.01

Sample ID → Sample Date

<b>MW-04_20200310:</b> 3/10/2020 <b>COMPOUND</b> <b>CONC. (µg/L)</b> Sodium (Dissolved) <b>701,000</b> Sodium (Total) <b>553,000</b>	Analyte/Compound → Concentration
---	----------------------------------

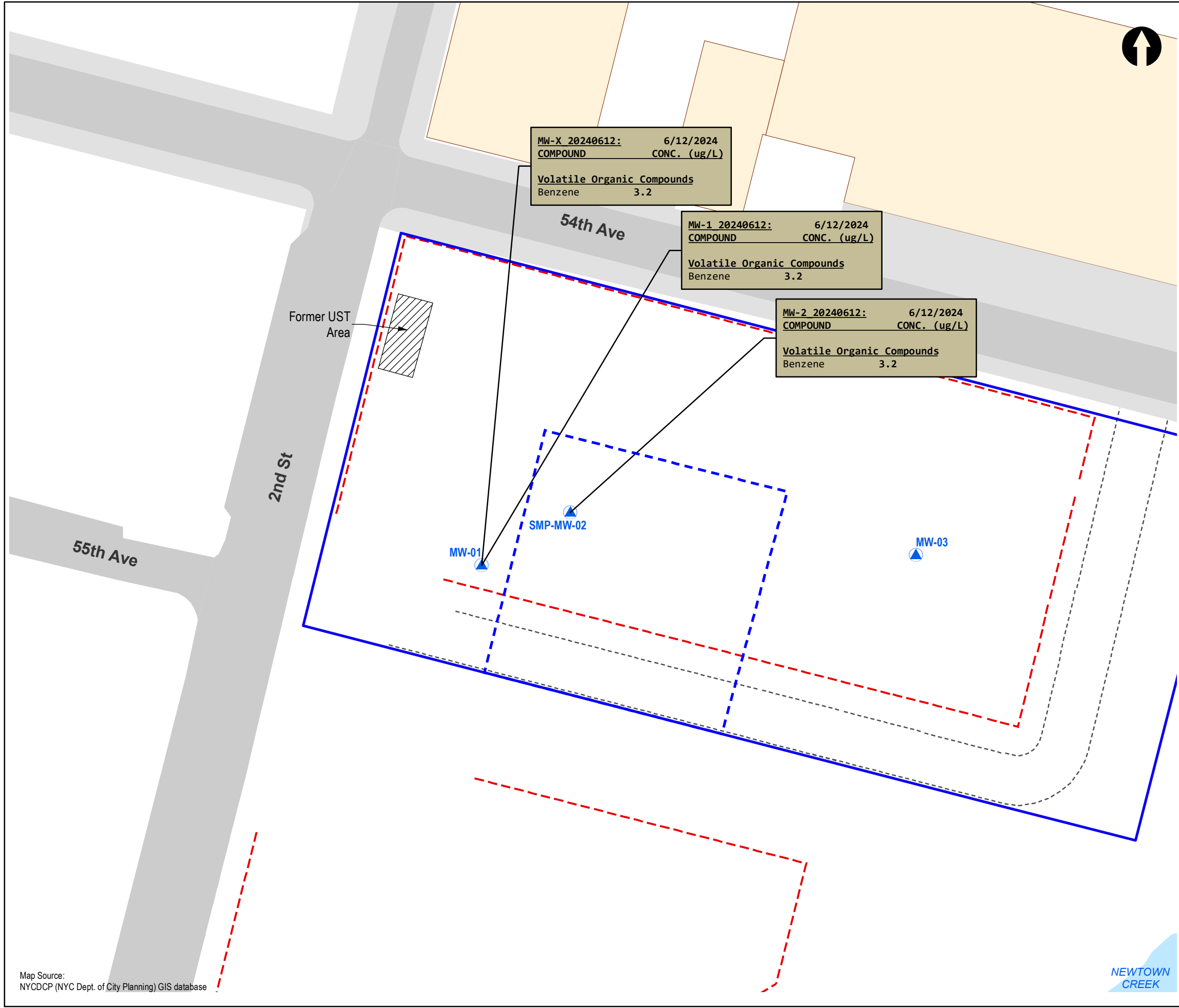
**AKRF**  
440 Park Avenue South, New York, NY 10016

**Newtown Creek Bud Site - North Block**  
2-10 54th Avenue - Long Island City, New York

**RI Groundwater Sample Concentrations Above AWQSGVs and Screening Levels**

DATE	4/9/2024
PROJECT NO.	200112
FIGURE	3

©2024 AKRF W:\Projects\200112 - BUD NORTH\Technical\GIS and Graphics\hazmat\O&M Groundwater Monitoring\200112 Fig 4 Post-Remediation Groundwater Sample Analytical Results Above AWQSGVs.mxd/8/2024 11:16:19 AM jszalus



MW-X 20240612: 6/12/2024  
 COMPOUND CONC. (ug/L)  
**Volatile Organic Compounds**  
 Benzene 3.2

MW-1 20240612: 6/12/2024  
 COMPOUND CONC. (ug/L)  
**Volatile Organic Compounds**  
 Benzene 3.2

MW-2 20240612: 6/12/2024  
 COMPOUND CONC. (ug/L)  
**Volatile Organic Compounds**  
 Benzene 3.2

**LEGEND**

- BCP SITE BOUNDARY
- ▲ GROUNDWATER MONITORING WELL
- EXISTING BUILDING
- APPROXIMATE EXTENT OF GROUNDWATER TREATMENT AREA
- NEW BUILDING FOOTPRINT
- APPROXIMATE LOCATION OF NEW ROAD

**NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs) and/or Screening Levels:**

New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):

µg/L: micrograms per Liter = parts per billion (ppb)

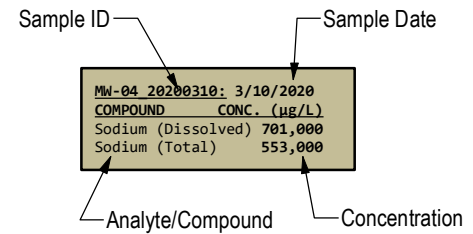
PFOA: Perfluorooctanoic acid  
 PFAS: Per- and polyfluoroalkyl substances

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The concentration given is an estimated value.  
 D: Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.

DUP-01\_20221128 is a blind duplicate of sample MW-01\_20221128  
 MW-X\_20240612 is a blind duplicate of sample MW-1\_20240612

Volatile Organic Compounds	NYSDEC AWQSGVs µg/l
1,2,4-Trimethylbenzene	5
Benzene	1
Ethylbenzene	5
O-Xylene (1,2-Dimethylbenzene)	5
Toluene	5
Xylenes, M,P	5

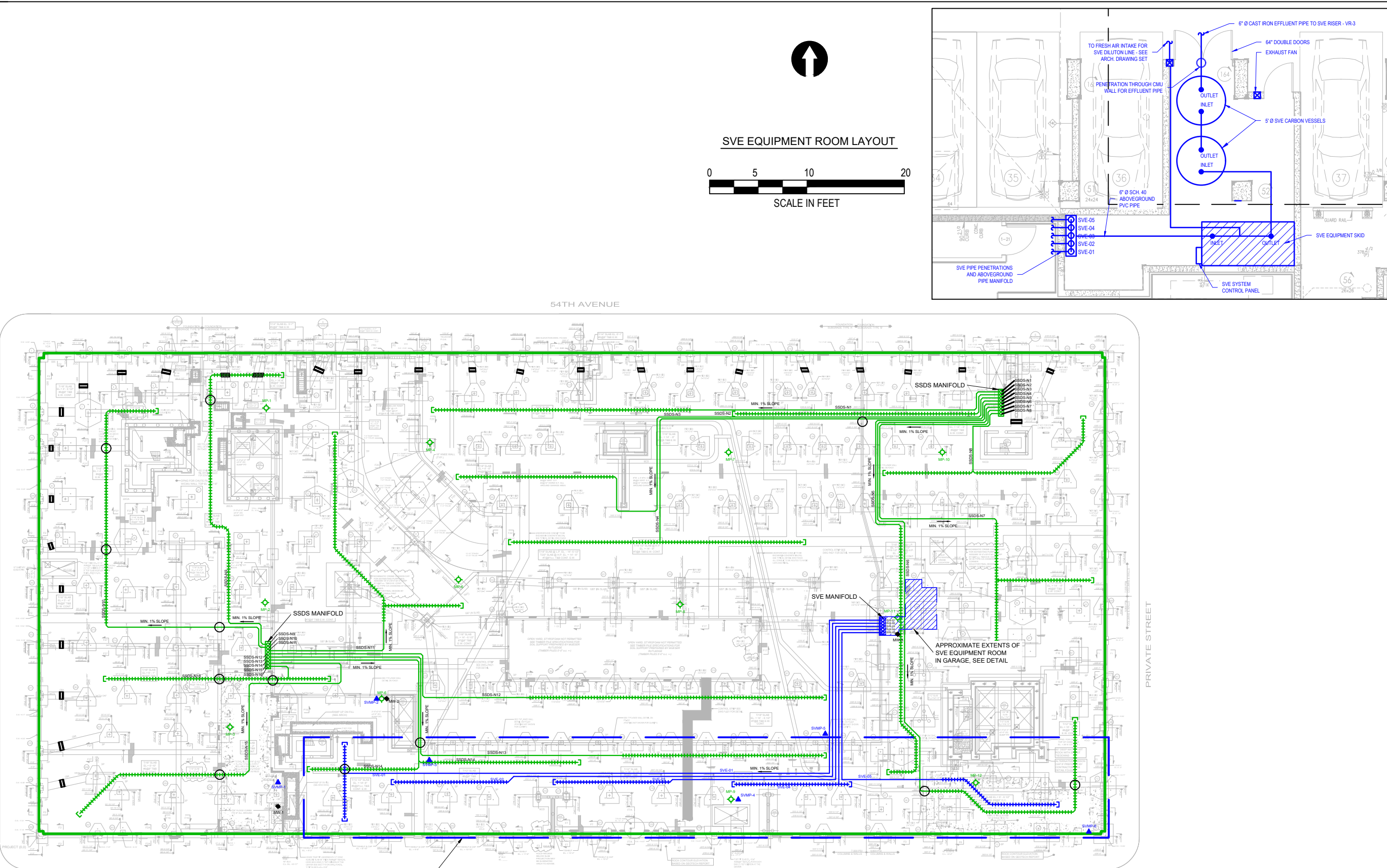


Map Source: NYCDPCP (NYC Dept. of City Planning) GIS database

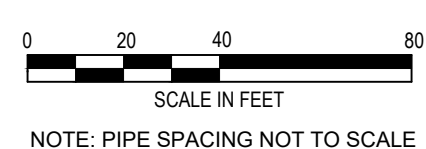
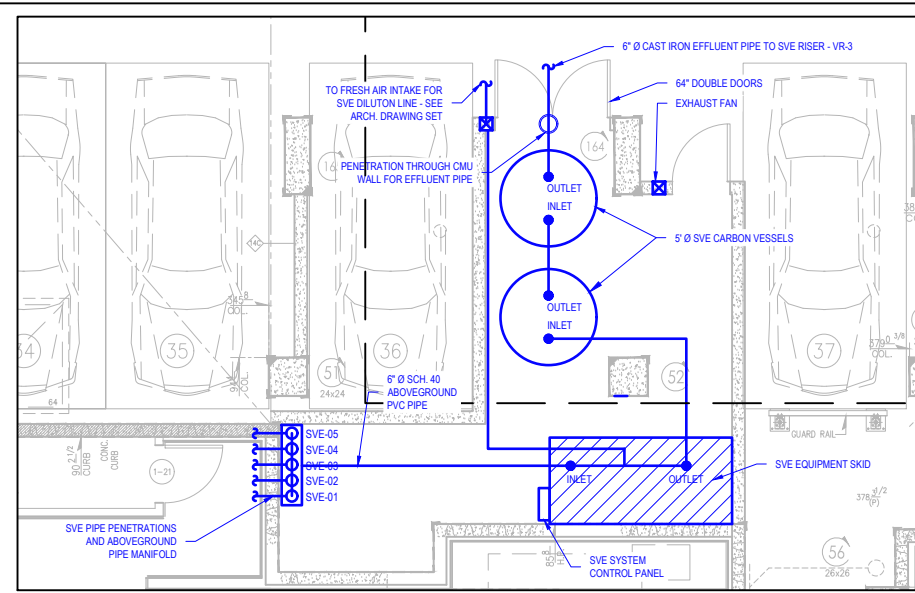
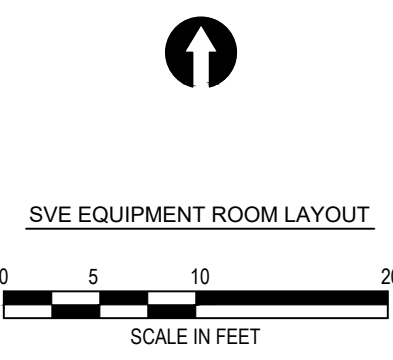
NEWTOWN CREEK



©2021 AKRF, Inc. W:\Projects\200112 - BUD NORTH\Technical\RAW\PCAD\200112 Fig 14 SSDS SVE Layout.dwg last save: mveilleux 12/9/2021 4:17 PM



- |   |   |   |
|---|---|---|
| <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li><span style="color: green;">▭</span> SSDS TREATMENT ZONE (EXTENT OF WATERPROOFING/VAPOR BARRIER/GAS-PERMEABLE AGGREGATE)</li> <li><span style="color: blue;">▭</span> SVE TREATMENT ZONE</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> SSDS COMMUNICATION SLEEVE THROUGH GRADE BEAM</li> <li><span style="border-bottom: 1px dashed black; width: 20px; display: inline-block;"></span> SSDS PIPE SLEEVE THROUGH GRADE BEAM</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">++++</span> SVE 4" Ø SLOTTED SCHEDULE 40 PVC PIPE WITH PVC END CAP</li> <li><span style="color: green;">++++</span> SSDS 4" Ø SLOTTED SCHEDULE 40 PVC PIPE WITH PVC END CAP</li> <li><span style="color: green;">—</span> SSDS/SVE 4" Ø SOLID SCHEDULE 40 PVC PIPE</li> <li><span style="border: 1px solid black; border-radius: 50%; width: 10px; height: 10px; display: inline-block;"></span> SSDS PIPE ELEVATION CHANGE</li> <li><span style="border-bottom: 1px dashed green; width: 20px; display: inline-block;"></span> SSDS/SVE PIPING MANIFOLD</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: green;">●</span> SVE-01/SSDS-N8</li> <li><span style="color: green;">◇</span> MP-1</li> <li><span style="color: blue;">▲</span> SVMP-1</li> <li><span style="color: black;">◆</span> MW-1</li> <li><span style="color: green;">●</span> SSDS/SVE 4" Ø RISER SLAB PENETRATION</li> <li><span style="color: green;">◇</span> SSDS VACUUM MONITORING POINT</li> <li><span style="color: blue;">▲</span> SVE VACUUM MONITORING POINT</li> <li><span style="color: black;">◆</span> POST-REMEDIATION GROUNDWATER MONITORING WELL</li> </ul> |
|---|---|---|



**Newtown Creek Bud Site - North Block**  
2-21 Malt Drive - Long Island City, New York

**AKRF**  
440 Park Avenue South, New York, NY 10016

DATE	<b>7/6/2023</b>
PROJECT NO.	<b>200112</b>
FIGURE	<b>5</b>

SVE, SSDS AND VAPOR BARRIER PLAN

**ATTACMENT A**  
**GROUNDWATER SAMPLING LOGS**



# Well Sampling Log

Job No: <u>200112</u>	Client:	Well No: <u>MW-1</u>
Project Location: <u>Bad North</u>	Sampled By: <u>MP</u>	
Date: <u>6/12/24</u>	Sampling Time: <u>1430</u>	
LEL at surface: <u>---</u>		
PID at surface: <u>ND</u>		

Total Depth: <u>~15.00</u> ft. below top of casing	Water Column (WC): <u>7.60</u> feet	*= 0.163 * WC for 2" wells
Depth to Water: <u>~7.40</u> ft. below top of casing	Well Volume*: <u>1.24</u> gallons	*= 0.653 * WC for 4" wells
Depth to Product: <u>---</u> ft. below top of casing	Volume Purged: <u>~2.5</u> gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: <u>---</u> ft. below top of casing	Well Diam.: <u>2</u> inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: <u>---</u> ft. below top of casing	Purging Device (pump type):	
Approx. Pump Intake: <u>~12</u> ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
<del>1345</del>	7.40	100	16.72	2.02	1.01	6.61	-254	68.0	Begin purging @ 13:40 Slight sulfuric-like odor, no color, no sheen  - collect samples after post sampling
1350	7.4	100	16.29	2.00	0.20	6.61	-254	88.1	
1355	8.5	100	16.14	2.08	0.19	6.63	-255	94.1	
1400	8.5	100	16.98	2.36	0.39	6.64	-274	117	
1405	8.5	100	16.50	2.46	0.63	6.64	-284	83.4	
1410	8.5	100	16.35	2.56	0.73	6.64	-287	71.6	
1415		100	16.41	2.66	0.81	6.64	-293	61.3	
1420		100	16.39	2.75	0.89	6.65	-296	49.0	
1450		100	15.97	2.87	1.32	6.82	-329	23.6	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: NO3 - 8260D, TPH-ORD - 8015D, TPH-DRO - 8015D  
MS/MSD collected MW-1\_20240612 @ 1430





# Well Sampling Log

Job No:	Client:	Well No: <del>200</del>
Project Location: <u>Bud North</u>	Sampled By: <u>HJ</u>	<u>MW-2</u>
Date: <u>6/14/21</u>	Sampling Time: <u>1255</u>	
LEL at surface: <u>-</u>		located between 2 risers, <i>the @ back wall of elevator bay,</i>
PID at surface: <u>-ND</u>		
Total Depth: <u>25.30</u> ft. below top of casing	Water Column (WC): <u>10.95</u> feet	*= 0.163 * WC for 2" wells
Depth to Water: <u>14.35</u> ft. below top of casing	Well Volume*: <u>1.78</u> gallons	*= 0.653 * WC for 4" wells
Depth to Product: <u>-</u> ft. below top of casing	Volume Purged: <u>~</u> gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: <u>-</u> ft. below top of casing	Well Diam.: <u>2</u> inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: <u>-</u> ft. below top of casing	Purging Device (pump type): <u>QED bladder pump</u>	
Approx. Pump Intake: <u>21</u> ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1225	14.35	100	18.37	3.15	9.56	6.68	-280	28.8	sulfuric-like odor
1230	14.35	100	17.73	3.03	5.02	6.67	-298	19.5	Began purge @ 12:20
1235	14.35	100	17.46	2.88	2.45	6.66	-307	0.6	no color/sheen
1240	14.35	100	17.35	2.84	1.51	6.64	-307	9.1	
1245	14.35	100	17.25	2.82	1.87	6.64	-309	7.5	
1250	14.35	100	17.25	2.92	2.00	6.65	-309	4.7	
1310	-	100	16.92	2.70	3.00	6.63	-316	7.2	- Sample after post sampling readings

*the @ back wall of elevator bay, flush mount doesn't indicate MW # pattern unit*

Stabilization Criteria:      +/- 3 mS/cm      +/- 0.3 mg/L      +/- 0.1 pH units      +/- 10 mV      <50 NTU

If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOCs 8260D, TPH-ORO 8015D, TPH-DRO 8015D  
MW-2 - 20240612 @ 1255 Duplicate collected MW-X-20240612 @ 1300



# Well Sampling Log

Job No: 200112	Client:	Well No: <b>MW-3</b>
Project Location: Bud North	Sampled By: MJ MB	
Date: 6/12/24	Sampling Time: 16:55	
LEL at surface:		
PID at surface: AD		

Total Depth: 19.90 ft. below top of casing	Water Column (WC): 5.9 feet	*= 0.163 * WC for 2" wells
Depth to Water: 14.00 ft. below top of casing	Well Volume*: gallons	*= 0.653 * WC for 4" wells
Depth to Product: - ft. below top of casing	Volume Purged: gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: - ft. below top of casing	Well Diam.: 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: - ft. below top of casing	Purging Device (pump type):	
Approx. Pump Intake: 17 ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1610	14.0	100	21.03	4.84	0.27	6.77	-73	247	Began purging @ 100 ml/min @ 1540. Water very turbid, so waiting to connect to flow cell, no odors or sheen emptied flow cell @ 1624, 1635, 1640 Sampled after past sampling
1615	14.0	100	20.27	4.68	0.00	6.78	-69	281	
1620	14.0	100	19.97	4.48	0.00	6.77	-68	260	
1626	14.0	100	19.88	4.28	0.05	6.76	-49	140	
1630	14.0	100	19.87	4.23	0.00	6.75	-56	112	
1635	14.0	100	19.83	4.17	0.00	6.74	-61	89.3	
1640	14.0	100	19.80	4.13	0.00	6.72	-59	70.0	
1645	14.0	100	19.75	4.10	0.03	6.70	-54	56.5	
1650	14.0	100	19.82	4.09	0.00	6.71	-58	49.8	
1705	-	100	19.81	3.99	0.00	6.71	-07	43.9	
<b>Stabilization Criteria:</b>				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: UOCs - 8260D TPH - D120 - 8015D  
 TPH - 020 - 8015D MW-3\_20240612 @ 16:55

**ATTACHMENT B**  
**LABORATORY DATA REPORTS AND DUSRS**



## ANALYTICAL REPORT

Lab Number:	L2433259
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Patrick Diggins
Phone:	(646) 388-9784
Project Name:	BUD NORTH
Project Number:	200112
Report Date:	06/27/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2433259-01	MW-2_20240612	WATER	54 2ND STREET, LONG ISLAND CITY, NY 11101	06/12/24 12:55	06/13/24
L2433259-02	MW-X_20240612	WATER	54 2ND STREET, LONG ISLAND CITY, NY 11101	06/12/24 13:00	06/13/24
L2433259-03	FIELD BLANK_20240612	WATER	54 2ND STREET, LONG ISLAND CITY, NY 11101	06/12/24 14:00	06/13/24
L2433259-04	TRIP BLANK	WATER	54 2ND STREET, LONG ISLAND CITY, NY 11101	06/12/24 00:00	06/13/24
L2433259-05	MW-1_20240612	WATER	54 2ND STREET, LONG ISLAND CITY, NY 11101	06/12/24 14:30	06/13/24
L2433259-06	MW-3_20240612	WATER	54 2ND STREET, LONG ISLAND CITY, NY 11101	06/12/24 16:55	06/13/24



**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

---

**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

### Case Narrative (continued)

#### Report Submission

June 27, 2024: This final report includes the results of all requested analyses.

June 20, 2024: This is a preliminary report.

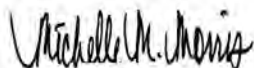
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Diesel Range & Oil Range Organics

The WG1935240-5 MSD recovery, performed on L2433259-05, is outside the acceptance criteria for nonane (C9) (38%); however, the associated LCS/LCSD recoveries are within overall method allowances. No further action was required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 06/27/24

# ORGANICS

# VOLATILES

**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433259-01  
 Client ID: MW-2\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 12:55  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260D  
 Analytical Date: 06/18/24 01:19  
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	3.2		ug/l	0.50	0.16	1
Toluene	0.85	J	ug/l	2.5	0.70	1
Ethylbenzene	0.80	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-01

Date Collected: 06/12/24 12:55

Client ID: MW-2\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	0.76	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	0.76	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	16		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-01

Date Collected: 06/12/24 12:55

Client ID: MW-2\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	0.84	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433259-02  
 Client ID: MW-X\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 13:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260D  
 Analytical Date: 06/18/24 01:44  
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	3.2		ug/l	0.50	0.16	1
Toluene	0.80	J	ug/l	2.5	0.70	1
Ethylbenzene	0.79	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1



Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-02

Date Collected: 06/12/24 13:00

Client ID: MW-X\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	14		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-02

Date Collected: 06/12/24 13:00

Client ID: MW-X\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	0.79	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-03  
 Client ID: FIELD BLANK\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 14:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260D  
 Analytical Date: 06/18/24 02:10  
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-03

Date Collected: 06/12/24 14:00

Client ID: FIELD BLANK\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-03

Date Collected: 06/12/24 14:00

Client ID: FIELD BLANK\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-04  
 Client ID: TRIP BLANK  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260D  
 Analytical Date: 06/18/24 02:35  
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-04

Date Collected: 06/12/24 00:00

Client ID: TRIP BLANK

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-04

Date Collected: 06/12/24 00:00

Client ID: TRIP BLANK

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130



**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433259-05  
 Client ID: MW-1\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 14:30  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260D  
 Analytical Date: 06/18/24 03:01  
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	3.2		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	0.85	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-05

Date Collected: 06/12/24 14:30

Client ID: MW-1\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	0.70	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	0.70	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	20		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-05

Date Collected: 06/12/24 14:30

Client ID: MW-1\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433259-06  
 Client ID: MW-3\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 16:55  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260D  
 Analytical Date: 06/18/24 03:26  
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-06

Date Collected: 06/12/24 16:55

Client ID: MW-3\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	10		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2433259

Project Number: 200112

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433259-06

Date Collected: 06/12/24 16:55

Client ID: MW-3\_20240612

Date Received: 06/13/24

Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/17/24 21:06  
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1935961-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/17/24 21:06  
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1935961-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70



**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/17/24 21:06  
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1935961-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2433259

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1935961-3 WG1935961-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	120		120		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	93		99		63-132	6		20
1,2-Dichloropropane	110		120		70-130	9		20
Dibromochloromethane	88		91		63-130	3		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	96		100		70-130	4		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	100		110		70-130	10		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	73		76		54-136	4		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	110		120		70-130	9		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	65		69		39-139	6		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2433259

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1935961-3 WG1935961-4								
Vinyl chloride	120		120		55-140	0		20
Chloroethane	140	Q	140	Q	55-138	0		20
1,1-Dichloroethene	110		120		61-145	9		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	100		110		70-130	10		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
Methyl tert butyl ether	96		98		63-130	2		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	110		110		70-130	0		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	120		110		58-148	9		20
Carbon disulfide	110		120		51-130	9		20
2-Butanone	100		110		63-138	10		20
Vinyl acetate	130		130		70-130	0		20
4-Methyl-2-pentanone	100		100		59-130	0		20
2-Hexanone	100		110		57-130	10		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2433259

Report Date: 06/27/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1935961-3 WG1935961-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	97		110		70-130	13		20
1,3-Dichloropropane	110		120		70-130	9		20
1,1,1,2-Tetrachloroethane	95		98		64-130	3		20
Bromobenzene	99		100		70-130	1		20
n-Butylbenzene	110		120		53-136	9		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		110		70-130	10		20
o-Chlorotoluene	110		120		70-130	9		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	86		91		41-144	6		20
Hexachlorobutadiene	84		90		63-130	7		20
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	100		110		70-130	10		20
Naphthalene	93		98		70-130	5		20
n-Propylbenzene	110		120		69-130	9		20
1,2,3-Trichlorobenzene	92		98		70-130	6		20
1,2,4-Trichlorobenzene	91		97		70-130	6		20
1,3,5-Trimethylbenzene	100		110		64-130	10		20
1,2,4-Trimethylbenzene	100		110		70-130	10		20
1,4-Dioxane	92		94		56-162	2		20
p-Diethylbenzene	99		100		70-130	1		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2433259

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1935961-3 WG1935961-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	94		98		70-130	4		20
Ethyl ether	99		110		59-134	11		20
trans-1,4-Dichloro-2-butene	100		110		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		111		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	95		94		70-130

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BUD NORTH

**Lab Number:** L2433259

**Project Number:** 200112

**Report Date:** 06/27/24

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1935961-6 WG1935961-7 QC Sample: L2433259-05 Client ID: MW-1_20240612												
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
1,1-Dichloroethane	ND	10	13	130		12	120		70-130	8		20
Chloroform	ND	10	12	120		12	120		70-130	0		20
Carbon tetrachloride	ND	10	10	100		10	100		63-132	0		20
1,2-Dichloropropane	ND	10	12	120		12	120		70-130	0		20
Dibromochloromethane	ND	10	8.3	83		8.2	82		63-130	1		20
1,1,2-Trichloroethane	ND	10	11	110		11	110		70-130	0		20
Tetrachloroethene	ND	10	10	100		10	100		70-130	0		20
Chlorobenzene	ND	10	11	110		11	110		75-130	0		20
Trichlorofluoromethane	ND	10	12	120		12	120		62-150	0		20
1,2-Dichloroethane	ND	10	11	110		11	110		70-130	0		20
1,1,1-Trichloroethane	ND	10	12	120		12	120		67-130	0		20
Bromodichloromethane	ND	10	10	100		10	100		67-130	0		20
trans-1,3-Dichloropropene	ND	10	9.6	96		9.4	94		70-130	2		20
cis-1,3-Dichloropropene	ND	10	9.5	95		9.4	94		70-130	1		20
1,1-Dichloropropene	ND	10	12	120		12	120		70-130	0		20
Bromoform	ND	10	6.4	64		6.3	63		54-136	2		20
1,1,2,2-Tetrachloroethane	ND	10	10	100		10	100		67-130	0		20
Benzene	3.2	10	16	128		16	128		70-130	0		20
Toluene	ND	10	12	120		12	120		70-130	0		20
Ethylbenzene	0.85J	10	13	130		13	130		70-130	0		20
Chloromethane	ND	10	12	120		12	120		64-130	0		20
Bromomethane	ND	10	3.8	38	Q	4.1	41		39-139	8		20

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BUD NORTH

**Project Number:** 200112

**Lab Number:** L2433259

**Report Date:** 06/27/24

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1935961-6 WG1935961-7 QC Sample: L2433259-05 Client ID: MW-1_20240612												
Vinyl chloride	ND	10	13	130		13	130		55-140	0		20
Chloroethane	ND	10	16	160	Q	16	160	Q	55-138	0		20
1,1-Dichloroethene	ND	10	12	120		12	120		61-145	0		20
trans-1,2-Dichloroethene	ND	10	12	120		12	120		70-130	0		20
Trichloroethene	ND	10	11	110		11	110		70-130	0		20
1,2-Dichlorobenzene	ND	10	11	110		11	110		70-130	0		20
1,3-Dichlorobenzene	ND	10	11	110		11	110		70-130	0		20
1,4-Dichlorobenzene	ND	10	11	110		11	110		70-130	0		20
Methyl tert butyl ether	ND	10	9.2	92		9.4	94		63-130	2		20
p/m-Xylene	0.70J	20	24	120		24	120		70-130	0		20
o-Xylene	ND	20	24	120		23	115		70-130	4		20
cis-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Dibromomethane	ND	10	10	100		10	100		70-130	0		20
1,2,3-Trichloropropane	ND	10	10	100		11	110		64-130	10		20
Acrylonitrile	ND	10	10	100		10	100		70-130	0		20
Styrene	ND	20	22	110		22	110		70-130	0		20
Dichlorodifluoromethane	ND	10	11	110		11	110		36-147	0		20
Acetone	ND	10	11	110		13	130		58-148	17		20
Carbon disulfide	ND	10	13	130		11	110		51-130	17		20
2-Butanone	ND	10	11	110		11	110		63-138	0		20
Vinyl acetate	ND	10	12	120		10	100		70-130	18		20
4-Methyl-2-pentanone	ND	10	9.9	99		10	100		59-130	1		20
2-Hexanone	ND	10	9.9	99		10	100		57-130	1		20

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BUD NORTH

**Lab Number:** L2433259

**Project Number:** 200112

**Report Date:** 06/27/24

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1935961-6 WG1935961-7 QC Sample: L2433259-05 Client ID: MW-1_20240612												
Bromochloromethane	ND	10	10	100		10	100		70-130	0		20
2,2-Dichloropropane	ND	10	11	110		11	110		63-133	0		20
1,2-Dibromoethane	ND	10	10	100		10	100		70-130	0		20
1,3-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	9.2	92		9.2	92		64-130	0		20
Bromobenzene	ND	10	10	100		10	100		70-130	0		20
n-Butylbenzene	ND	10	12	120		12	120		53-136	0		20
sec-Butylbenzene	ND	10	12	120		12	120		70-130	0		20
tert-Butylbenzene	ND	10	11	110		12	120		70-130	9		20
o-Chlorotoluene	ND	10	12	120		12	120		70-130	0		20
p-Chlorotoluene	ND	10	12	120		12	120		70-130	0		20
1,2-Dibromo-3-chloropropane	ND	10	6.8	68		7.1	71		41-144	4		20
Hexachlorobutadiene	ND	10	8.8	88		9.3	93		63-130	6		20
Isopropylbenzene	ND	10	12	120		12	120		70-130	0		20
p-Isopropyltoluene	ND	10	12	120		12	120		70-130	0		20
Naphthalene	20	10	35	150	Q	36	160	Q	70-130	3		20
n-Propylbenzene	ND	10	12	120		13	130		69-130	8		20
1,2,3-Trichlorobenzene	ND	10	9.3	93		9.8	98		70-130	5		20
1,2,4-Trichlorobenzene	ND	10	9.5	95		9.8	98		70-130	3		20
1,3,5-Trimethylbenzene	ND	10	12	120		12	120		64-130	0		20
1,2,4-Trimethylbenzene	ND	10	12	120		12	120		70-130	0		20
1,4-Dioxane	ND	500	450	90		470	94		56-162	4		20
p-Diethylbenzene	ND	10	11	110		12	120		70-130	9		20



### Matrix Spike Analysis Batch Quality Control

**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1935961-6 WG1935961-7 QC Sample: L2433259-05 Client ID: MW-1_20240612												
p-Ethyltoluene	ND	10	12	120		12	120		70-130	0		20
1,2,4,5-Tetramethylbenzene	ND	10	10	100		10	100		70-130	0		20
Ethyl ether	ND	10	9.6	96		9.9	99		59-134	3		20
trans-1,4-Dichloro-2-butene	ND	10	1.4J	14	Q	1.4J	14	Q	70-130	0		20

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	109		108		70-130
4-Bromofluorobenzene	100		103		70-130
Dibromofluoromethane	93		92		70-130
Toluene-d8	101		101		70-130



# PETROLEUM HYDROCARBONS

**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433259-01  
 Client ID: MW-2\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 12:55  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 06/20/24 13:45  
 Analyst: AMV

Extraction Method: EPA 3510C  
 Extraction Date: 06/17/24 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Diesel/Other Range Organics by GC-FID - Mansfield Lab</b>						
Total Petroleum Hydrocarbons (C9-C44)	324		ug/l	32.4	27.2	1
DRO (C10-C28)	288		ug/l	29.4	18.6	1
ORO (C28-C40)	18.5		ug/l	10.8	2.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		50-130
d50-Tetracosane	70		50-130

**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433259-02  
 Client ID: MW-X\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 13:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 06/20/24 15:13  
 Analyst: AMV

Extraction Method: EPA 3510C  
 Extraction Date: 06/17/24 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Diesel/Other Range Organics by GC-FID - Mansfield Lab</b>						
Total Petroleum Hydrocarbons (C9-C44)	305		ug/l	31.1	26.1	1
DRO (C10-C28)	304		ug/l	28.3	17.9	1
ORO (C28-C40)	10.8		ug/l	10.4	2.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65		50-130
d50-Tetracosane	72		50-130

**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433259-03  
 Client ID: FIELD BLANK\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 14:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 06/20/24 16:41  
 Analyst: AMV

Extraction Method: EPA 3510C  
 Extraction Date: 06/17/24 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Diesel/Other Range Organics by GC-FID - Mansfield Lab</b>						
Total Petroleum Hydrocarbons (C9-C44)	ND		ug/l	32.4	27.2	1
DRO (C10-C28)	ND		ug/l	29.4	18.6	1
ORO (C28-C40)	ND		ug/l	10.8	2.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		50-130
d50-Tetracosane	77		50-130

**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433259-05  
 Client ID: MW-1\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 14:30  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 06/20/24 18:10  
 Analyst: AMV

Extraction Method: EPA 3510C  
 Extraction Date: 06/17/24 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Diesel/Other Range Organics by GC-FID - Mansfield Lab</b>						
Total Petroleum Hydrocarbons (C9-C44)	223		ug/l	31.1	26.1	1
DRO (C10-C28)	213		ug/l	28.3	17.9	1
ORO (C28-C40)	10.1	J	ug/l	10.4	2.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	59		50-130
d50-Tetracosane	65		50-130

**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433259-06  
 Client ID: MW-3\_20240612  
 Sample Location: 54 2ND STREET, LONG ISLAND CITY, NY 11101

Date Collected: 06/12/24 16:55  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 06/20/24 22:33  
 Analyst: AMV

Extraction Method: EPA 3510C  
 Extraction Date: 06/17/24 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Diesel/Other Range Organics by GC-FID - Mansfield Lab</b>						
Total Petroleum Hydrocarbons (C9-C44)	39.2		ug/l	33.7	28.3	1
DRO (C10-C28)	75.8		ug/l	30.6	19.4	1
ORO (C28-C40)	ND		ug/l	11.2	2.80	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	66		50-130
d50-Tetracosane	73		50-130

**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 06/19/24 18:50  
**Analyst:** AMV

**Extraction Method:** EPA 3510C  
**Extraction Date:** 06/17/24 15:19

Parameter	Result	Qualifier	Units	RL	MDL
Diesel/Other Range Organics by GC-FID - Mansfield Lab for sample(s): 01-03,05-06 Batch: WG1935240-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		ug/l	33.0	27.7
DRO (C10-C28)	ND		ug/l	30.0	19.0
ORO (C28-C40)	ND		ug/l	11.0	2.74

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		50-130
d50-Tetracosane	77		50-130



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel/Other Range Organics by GC-FID - Mansfield Lab Associated sample(s): 01-03,05-06 Batch: WG1935240-2 WG1935240-3								
Nonane (C9)	58		59		50-130	2		30
Decane (C10)	66		67		50-130	2		30
Dodecane (C12)	80		80		50-130	0		30
Tetradecane (C14)	89		92		50-130	3		30
Hexadecane (C16)	97		100		50-130	3		30
Octadecane (C18)	101		103		50-130	2		30
Nonadecane (C19)	104		107		50-130	3		30
Eicosane (C20)	102		104		50-130	2		30
Docosane (C22)	99		100		50-130	1		30
Tetracosane (C24)	106		107		50-130	1		30
Hexacosane (C26)	100		100		50-130	0		30
Octacosane (C28)	100		100		50-130	0		30
Triacontane (C30)	99		100		50-130	1		30
Hexatriacontane (C36)	88		87		50-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	88		87		50-130
d50-Tetracosane	98		98		50-130



### Matrix Spike Analysis Batch Quality Control

**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Diesel/Other Range Organics by GC-FID - Mansfield Lab Associated sample(s): 01-03,05-06 QC Batch ID: WG1935240-4 WG1935240-5 QC Sample: L2433259-05 Client ID: MW-1_20240612												
Nonane (C9)	ND	240	121	50		89.3	38	Q	50-150	30		30
Decane (C10)	ND	240	173	72		131	55		50-150	28		30
Dodecane (C12)	1.91	240	235E	97		192E	81		50-150	20		30
Tetradecane (C14)	ND	240	250E	104		210E	89		50-150	18		30
Hexadecane (C16)	5.55	240	259E	105		218E	90		50-150	17		30
Octadecane (C18)	13.9	240	271E	107		228E	91		50-150	17		30
Nonadecane (C19)	ND	240	353E	147		293E	124		50-150	19		30
Eicosane (C20)	0.235	240	267E	111		226.E	96		50-150	17		30
Docosane (C22)	ND	240	258E	107		219E	93		50-150	16		30
Tetracosane (C24)	ND	240	273E	114		232E	98		50-150	16		30
Hexacosane (C26)	ND	240	257E	107		218E	93		50-150	16		30
Octacosane (C28)	3.29	240	262E	108		223E	93		50-150	16		30
Triacontane (C30)	ND	240	254E	106		215E	91		50-150	17		30
Hexatriacontane (C36)	ND	240	221E	92		182	77		50-150	19		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
d50-Tetracosane	106		90		50-130
o-Terphenyl	67		58		50-130



**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433259-01A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-01B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-01C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-01D	Amber 1000ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-01E	Amber 1000ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-02A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-02B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-02C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-02D	Amber 1000ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-02E	Amber 1000ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-03A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-03B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-03C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-03D	Amber 1000ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-03E	Amber 1000ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-04A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-04B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-05A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-05A1	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-05A2	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2433259-05B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-05B1	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)

**Project Name:** BUD NORTH**Lab Number:** L2433259**Project Number:** 200112**Report Date:** 06/27/24**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433259-05B2	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2433259-05C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-05C1	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2433259-05C2	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2433259-05D	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-05D1	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-05E	Amber 1000ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-05E1	Amber 1000ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-05F	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-05F1	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-06A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2433259-06B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2433259-06C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2433259-06D	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		A2-TPHDRO/ORO(7)
L2433259-06E	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		A2-TPHDRO/ORO(7)

**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Chlordane:** The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Gasoline Range Organics (GRO):** Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

#### **Data Qualifiers**

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

**Project Name:** BUD NORTH  
**Project Number:** 200112

**Lab Number:** L2433259  
**Report Date:** 06/27/24

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625.1:** alpha-Terpineol

**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Nonpotable Water:** EPA RSK-175 Dissolved Gases

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

**SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).

**Microbiology:** SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



July 30, 2024

Mr. Patrick Diggins  
AKRF  
440 Park Avenue South  
7th Floor  
New York, NY 10016

Re: Data Usability Summary Report – Alpha Analytical – L2433259

Dear Mr. Diggins:

The evaluation of volatile organic analytical data by Alpha Analytical for four water samples, one field blank and one trip blank from the Bud North site, which were reported in a single data package under Job No. L2433259 has been completed. The following samples were reported:

MW-2_20240612	MW-X_20240612
FIELD BLANK_20240612	TRIP BLANK
MW-1_20240612	MW-3_20240612

Analyses were performed in accordance with USEPA Methods 8260D (Volatile Organics) and 8015D (Total Petroleum Hydrocarbons). The review was performed to the extent possible, in accordance with the analytical methods and “DER-10/ Technical Guidance for Site Investigation and Remediation”. Professional judgment is applied as necessary and appropriate. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes

6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes
7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

### Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

### Volatile Organics

- The results for bromomethane and bromoform in all samples are qualified as estimated (UJ) due to low response in the CCV and low recovery in the LCS and LCSD.
- The results for bromomethane, bromoform, 1,2-dibromo-3-chloropropane and trans-1,4-dichloro-2-butene in MW-1\_20240612 are qualified as estimated (UJ) due to low recovery in the MS and/or MSD.
- The result for naphthalene in MW-2\_20240612, MW-X\_20240612, MW-1\_20240612 and MW-3\_20240612 are qualified as estimated (J, UJ) due to imprecision in field duplicate samples.

### Total Petroleum Hydrocarbons

- The result for TPH in MW-1\_20240612 is qualified as estimated (J-) due to low recovery of nonane (C9) in the MSD.
- The results for TPH and DRO in MW-2\_20240612, MW-X\_20240612, MW-1\_20240612 and MW-3\_20240612 are qualified as estimated (J, UJ) due to imprecision in field duplicate samples.
- The result for TPH (C9-C44) in samples MW-X\_20240612, MW-1\_20240612 and MW-3\_20240612 are qualified as estimated (J-) and may be biased low due to improper integration of carbon ranges.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions

- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
  - Clean Canister Certification
  - Method blanks
  - Field blanks
  - Trip Blanks
  - Surrogate recoveries
  - LCS/LCSD recoveries
  - MS/MSD recoveries
  - Internal standards
  - Serial dilutions
  - Duplicates
- Instrument related quality control data:
  - Instrument tunes
  - Calibration summaries
  - Interference Check Standards

In the remaining sections of this report, only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact on sample results are not discussed.

**Documentation:** A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package.

Improper edits were observed on the chain of custody (COC). Edits should be made by drawing a single line through the entry error, dated and initialed by the person making the edit.

The electronic data deliverable (EDD) reports the petroleum hydrocarbon results differently than in the data package, as follows:

Analyte	Data Package	EDD
TPH	TPH (C9-C44)	DROD (C9-C40)
ORO	ORO (C28-C40)	C28-C40 PHC

**Holding Times, Preservation, Sample Integrity:**

A copy of the applicable chain of custody (COC) record was included in the data package, documenting a sample collection date of June 12, 2024. The samples were received at the laboratory on June 13, 2024. All samples were received intact and analyzed within method holding time.

**A. Volatile Organics****Calibration**

One initial calibration (IC) was performed in support of the sample analyses. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients (r<sup>2</sup>) are acceptable. A second source ICV standard was analyzed after the IC, and all percent differences are acceptable ( $\leq 30\%D$ ). One CCV was analyzed in support of sample analysis. All percent differences (%Ds) are acceptable ( $\leq 20\%D$ ) with the exceptions noted below.

Analyte	%D	Associated Sample	Qualifier Applied
<i>CCV VOA105 06/17/24 19:25</i>			
Bromomethane	34.9	MW-2_20240612	UJ
Bromoform	26.7	MW-X_20240612 FIELD BLANK_20240612 TRIP BLANK MW-1_20240612 MW-3_20240612	

In all instances, the percent difference represents a decrease in instrument sensitivity. The results for bromomethane and bromoform in all samples are qualified as estimated (UJ) due to low response in the CCV.

**Laboratory Control Sample (LCS) / LCS Duplicate (LCS)**

One LCS/LCSD pair was analyzed in support of sample analysis. The LCS/LCSD is evaluated using control limit of 70-130%R, relative percent difference (RPD) $\leq 20$ . All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	LCS %R	LCSD %R	RPD	Associated Sample
<i>LCS WG1935961-3 &amp; 4</i>				
Bromomethane	65	69	a	MW-2_20240612
Bromoform	64	63	a	MW-X_20240612 FIELD BLANK_20240612

				TRIP BLANK MW-1_20240612 MW-3_20240612
--	--	--	--	--

a=acceptable

The results for bromomethane and bromoform in all samples are qualified as estimated (UJ) due to low recovery in the LCS and LCSD.

### ***Matrix Spike (MS) / MS Duplicate (MSD)***

MS/MSD analyses were performed on MW-1\_20240612. The MS/MSD is evaluated using control limit of 70-130%R, relative percent difference (RPD)≤30. All recoveries and RPDs are acceptable, with the following exceptions.

<b>Analyte</b>	<b>MS %R</b>	<b>MSD %R</b>	<b>RPD</b>
Bromomethane	38	41	a
Bromoform	64	63	a
1,2-Dibromo-3-chloropropane	68	a	a
trans-1,4-Dichloro-2-butene	14	14	a

a=acceptable

The results for bromomethane, bromoform, 1,2-dibromo-3-chloropropane and trans-1,4-dichloro-2-butene in MW-1\_20240612 are qualified as estimated (UJ) due to low recovery in the MS and/or MSD.

### ***Field Duplicates***

MW-X\_20240612 was submitted as a field duplicate of MW-1\_20240612. Precision between paired samples is acceptable (RPD≤30) as presented below. Sample results less than the reporting limit are not evaluated for precision.

<b>Analyte</b>	<b>MW-1_20240612ug/L</b>	<b>MW-X_20240612 (ug/L)</b>	<b>RPD</b>
Benzene	3.2	3.2	0
Toluene	ND	0.80 (J)	nc
Ethylbenzene	0.85 (J)	0.79 (J)	nc
p/m-Xylene	0.70 (J)	ND	nc
Naphthalene	20	14	35
1,2,4-Trimethylbenzene	ND	0.79 (J)	nc

nc-not calculated

ND-not detected

The result for naphthalene in MW-2\_20240612, MW-X\_20240612, MW-1\_20240612 and MW-3\_20240612 are qualified as estimated (J, UJ) due to imprecision if field duplicate samples.

### **B. Total Petroleum Hydrocarbons**

#### ***Matrix Spike (MS) / MS Duplicate (MSD)***

MS/MSD analyses were performed on MW-1\_20240612. The MS/MSD is evaluated using control limit of 50-130%R, relative percent difference (RPD) $\leq$ 30. All recoveries and RPDs are acceptable, with the following exceptions.

<b>Analyte</b>	<b>MS %R</b>	<b>MSD %R</b>	<b>RPD</b>
Nonane (C9)	a	38	a

a=acceptable

The result for TPH in MW-1\_20240612 is qualified as estimated (J-) due to low recovery of nonane in the MSD.

#### **Quantitation**

The laboratory reported TPH (C9-C44), DRO (C10-C28) and ORO (C28-C40). As such, the concentration of TPH (C9-C44), which has the largest carbon range, should be greater than the sum of DRO and ORO. However, this is not the case for samples MW-X\_20240612, MW-1\_20240612 and MW-3\_20240612. The laboratory was contacted and replied: *'Each range is calculated by taking the area between the stated alkanes, subtracting the area of the same range found in its instrument blank, then using the resulting area to calculate the amount reported. Each sample uses one instrument blank for all of its ranges, and while the best instrument blank is used, there can be some error if the baseline doesn't exactly match the samples' baseline'*. Based on professional judgment, the result for TPH (C9-C44) in samples MW-X\_20240612, MW-1\_20240612 and MW-3\_20240612 are qualified as estimated (J-) and may be biased low due to inconsistencies in integration procedures.

#### **Field Duplicates**

MW-X\_20240612 was submitted as a field duplicate of MW-1\_20240612. Precision between paired samples is acceptable (RPD $\leq$ 30) as presented below.

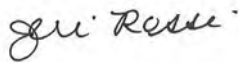


Analyte	MW-1_20240612ug/L	MW-X_20240612 (ug/L)	RPD
TPH (C9-C44)	223	305	31
DRO (C10-C28)	213	304	34
ORO (C28-C40)	10.1	10.8	6.7

The result for TPH (C9-C44) and DRO (C10-C28) in MW-2\_20240612, MW-X\_20240612, MW-1\_20240612 and MW-3\_20240612 are qualified as estimated (J, UJ) due to imprecision if field duplicate samples.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,



Jeri L Rossi, CEAC

Environmental Consulting Chemist

**ATTACHMENT A**

**Qualifier Definitions**

## EPA Qualifier Definitions

- U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
- UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**ATTACHMENT B**

**CHAIN OF CUSTODY (COC)**



**NEW YORK  
CHAIN OF  
CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

1 of 1

Date Rec'd  
in Lab

6/13/24

ALPHA Job #

L2433259

**Project Information**

Project Name: Bud North  
Project Location: 57 2nd Street, Long Island City, 11101  
Project # 200112

**Deliverables**

ASP-A  ASP-B  
 EQUIS (1 File)  EQUIS (4 File)  
 Other

**Billing Information**

Same as Client Info  
PO #

**Client Information**

Client: AKRF  
(Use Project name as Project #)

**Regulatory Requirement:**

NY TOGS  NY Part 375  
 AWO Standards  NY CP-51  
 NY Restricted Use  Other  
 NY Unrestricted Use  
 NYC Sewer Discharge

**Disposal Site Information**

Please identify below location of applicable disposal facilities.

**Disposal Facility:**

NJ  NY  
 Other:

**Turn-Around Time**

Standard  Due Date:  
Rush (only if pre approved)  # of Days:

These samples have been previously analyzed by Alpha

**Other project specific requirements/comments:**

Cat B EQUIS deliverables; close SDG

**Please specify Metals or TAL.**

**ANALYSIS**

VOCs - 8260D  
TPH-GRO - 8015D  
TPH-DRO - 5015D  
Trip Blank 8260D

**Sample Filtration**

Done  
 Lab to do  
 Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS			Sample Specific Comments
		Date	Time			VOCs - 8260D	TPH-GRO - 8015D	TPH-DRO - 5015D	
33259-01	MW-2-20240612	6/12/24	12:55	GW	MI	X	X	X	
-02	MW-X-20240612	6/12/24	1300	GW	MI	X	X	X	
-03	Field Blank - 20240612	6/12/24	1400	GW	MI	X	X	X	
-04	Trip Blank <del>20240612</del>	6/12/24	-	W				X	
-05	MW-1-20240612	6/12/24	1430	GW	MI	X	X	X	MS/MSD collected.
-06	MW-3-20240612	6/12/24	1655	GW	MI	X	X	X	

**Preservative Code:**

A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
K/E = Zn Ac/NaOH  
O = Other

**Container Code**

P = Plastic  
A = Amber Glass  
V = Vial  
G = Glass  
B = Bacteria Cup  
C = Cube  
O = Other  
E = Encore  
D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

**Container Type**

4000  
1000  
1000  
ML  
ML  
ML

**Preservative**

HCL  
None  
None

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
Mike Botes	6/13/24 0821	K Swa (PAC)	6/13/24 921
K Swa (PAC)	6/13/24 1222	Paul Marzella	6/13/24 1628
Paul Marzella	6/13/24	Christina Pate	6/13/24 2200
Christina Pate	6/13/24 2305	OUT	6/13/24 23:05

**ATTACHMENT C**

**SELECTED PAGES FROM DATA PACKAGE –  
QC EXCEEDANCES AND VALIDATION ISSUES**

# Laboratory Control Sample Summary

## Form 3

### Volatiles

**Client** : AKRF, Inc. **Lab Number** : L2433259  
**Project Name** : BUD NORTH **Project Number** : 200112  
**Matrix (Level)** : WATER (LOW)  
**LCS Sample ID** : WG1935961-3 **Analysis Date** : 06/17/24 19:25 **File ID** : V05240617N01  
**LCSD Sample ID** : WG1935961-4 **Analysis Date** : 06/17/24 19:50 **File ID** : V05240617N02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	11	110	10	11	110	0	70-130	20
1,1-Dichloroethane	10	12	120	10	12	120	0	70-130	20
Chloroform	10	11	110	10	11	110	0	70-130	20
Carbon tetrachloride	10	9.3	93	10	9.9	99	6	63-132	20
1,2-Dichloropropane	10	11	110	10	12	120	9	70-130	20
Dibromochloromethane	10	8.8	88	10	9.1	91	3	63-130	20
1,1,2-Trichloroethane	10	11	110	10	11	110	0	70-130	20
Tetrachloroethene	10	9.6	96	10	10	100	4	70-130	20
Chlorobenzene	10	11	110	10	11	110	0	75-130	20
Trichlorofluoromethane	10	10	100	10	11	110	10	62-150	20
1,2-Dichloroethane	10	11	110	10	12	120	9	70-130	20
1,1,1-Trichloroethane	10	10	100	10	11	110	10	67-130	20
Bromodichloromethane	10	10	100	10	10	100	0	67-130	20
trans-1,3-Dichloropropene	10	10	100	10	11	110	10	70-130	20
cis-1,3-Dichloropropene	10	10	100	10	10	100	0	70-130	20
1,1-Dichloropropene	10	11	110	10	11	110	0	70-130	20
Bromoform	10	7.3	73	10	7.6	76	4	54-136	20
1,1,2,2-Tetrachloroethane	10	11	110	10	11	110	0	67-130	20
Benzene	10	11	110	10	12	120	9	70-130	20
Toluene	10	11	110	10	11	110	0	70-130	20
Ethylbenzene	10	11	110	10	11	110	0	70-130	20
Chloromethane	10	11	110	10	11	110	0	64-130	20
Bromomethane	10	6.5	65	10	6.9	69	6	39-139	20
Vinyl chloride	10	12	120	10	12	120	0	55-140	20
Chloroethane	10	14	140 Q	10	14	140 Q	0	55-138	20
1,1-Dichloroethene	10	11	110	10	12	120	9	61-145	20



# Matrix Spike Sample Summary

## Form 3

### Volatiles

Client : AKRF, Inc.	Lab Number : L2433259
Project Name : BUD NORTH	Project Number : 200112
Client Sample ID : MW-1_20240612	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2433259-05	Analysis Date : 06/18/24 03:01
Matrix Spike : WG1935961-6	MS Analysis Date : 06/18/24 05:58
Matrix Spike Dup : WG1935961-7	MSD Analysis Date : 06/18/24 06:23

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Methylene chloride	ND	10	11	110	10	11	110	0	70-130	20
1,1-Dichloroethane	ND	10	13	130	10	12	120	8	70-130	20
Chloroform	ND	10	12	120	10	12	120	0	70-130	20
Carbon tetrachloride	ND	10	10	100	10	10	100	0	63-132	20
1,2-Dichloropropane	ND	10	12	120	10	12	120	0	70-130	20
Dibromochloromethane	ND	10	8.3	83	10	8.2	82	1	63-130	20
1,1,2-Trichloroethane	ND	10	11	110	10	11	110	0	70-130	20
Tetrachloroethene	ND	10	10	100	10	10	100	0	70-130	20
Chlorobenzene	ND	10	11	110	10	11	110	0	75-130	20
Trichlorofluoromethane	ND	10	12	120	10	12	120	0	62-150	20
1,2-Dichloroethane	ND	10	11	110	10	11	110	0	70-130	20
1,1,1-Trichloroethane	ND	10	12	120	10	12	120	0	67-130	20
Bromodichloromethane	ND	10	10	100	10	10	100	0	67-130	20
trans-1,3-Dichloropropene	ND	10	9.6	96	10	9.4	94	2	70-130	20
cis-1,3-Dichloropropene	ND	10	9.5	95	10	9.4	94	1	70-130	20
1,1-Dichloropropene	ND	10	12	120	10	12	120	0	70-130	20
Bromoform	ND	10	6.4	64	10	6.3	63	2	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	10	100	10	10	100	0	67-130	20
Benzene	3.2	10	16	128	10	16	128	0	70-130	20
Toluene	ND	10	12	120	10	12	120	0	70-130	20
Ethylbenzene	0.85J	10	13	130	10	13	130	0	70-130	20
Chloromethane	ND	10	12	120	10	12	120	0	64-130	20





# Matrix Spike Sample Summary

## Form 3

### Volatiles

Client : AKRF, Inc.	Lab Number : L2433259
Project Name : BUD NORTH	Project Number : 200112
Client Sample ID : MW-1_20240612	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2433259-05	Analysis Date : 06/18/24 03:01
Matrix Spike : WG1935961-6	MS Analysis Date : 06/18/24 05:58
Matrix Spike Dup : WG1935961-7	MSD Analysis Date : 06/18/24 06:23

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Bromomethane	ND	10	3.8	38 Q	10	4.1	41	8	39-139	20
Vinyl chloride	ND	10	13	130	10	13	130	0	55-140	20
Chloroethane	ND	10	16	160 Q	10	16	160 Q	0	55-138	20
1,1-Dichloroethene	ND	10	12	120	10	12	120	0	61-145	20
trans-1,2-Dichloroethene	ND	10	12	120	10	12	120	0	70-130	20
Trichloroethene	ND	10	11	110	10	11	110	0	70-130	20
1,2-Dichlorobenzene	ND	10	11	110	10	11	110	0	70-130	20
1,3-Dichlorobenzene	ND	10	11	110	10	11	110	0	70-130	20
1,4-Dichlorobenzene	ND	10	11	110	10	11	110	0	70-130	20
Methyl tert butyl ether	ND	10	9.2	92	10	9.4	94	2	63-130	20
p/m-Xylene	0.70J	20	24	120	20	24	120	0	70-130	20
o-Xylene	ND	20	24	120	20	23	115	4	70-130	20
cis-1,2-Dichloroethene	ND	10	11	110	10	11	110	0	70-130	20
Dibromomethane	ND	10	10	100	10	10	100	0	70-130	20
1,2,3-Trichloropropane	ND	10	10	100	10	11	110	10	64-130	20
Acrylonitrile	ND	10	10	100	10	10	100	0	70-130	20
Styrene	ND	20	22	110	20	22	110	0	70-130	20
Dichlorodifluoromethane	ND	10	11	110	10	11	110	0	36-147	20
Acetone	ND	10	11	110	10	13	130	17	58-148	20
Carbon disulfide	ND	10	13	130	10	11	110	17	51-130	20
2-Butanone	ND	10	11	110	10	11	110	0	63-138	20
Vinyl acetate	ND	10	12	120	10	10	100	18	70-130	20



# Matrix Spike Sample Summary

## Form 3

### Volatiles

Client : AKRF, Inc.	Lab Number : L2433259
Project Name : BUD NORTH	Project Number : 200112
Client Sample ID : MW-1_20240612	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2433259-05	Analysis Date : 06/18/24 03:01
Matrix Spike : WG1935961-6	MS Analysis Date : 06/18/24 05:58
Matrix Spike Dup : WG1935961-7	MSD Analysis Date : 06/18/24 06:23

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
4-Methyl-2-pentanone	ND	10	9.9	99	10	10	100	1	59-130	20
2-Hexanone	ND	10	9.9	99	10	10	100	1	57-130	20
Bromochloromethane	ND	10	10	100	10	10	100	0	70-130	20
2,2-Dichloropropane	ND	10	11	110	10	11	110	0	63-133	20
1,2-Dibromoethane	ND	10	10	100	10	10	100	0	70-130	20
1,3-Dichloropropane	ND	10	11	110	10	11	110	0	70-130	20
1,1,1,2-Tetrachloroethane	ND	10	9.2	92	10	9.2	92	0	64-130	20
Bromobenzene	ND	10	10	100	10	10	100	0	70-130	20
n-Butylbenzene	ND	10	12	120	10	12	120	0	53-136	20
sec-Butylbenzene	ND	10	12	120	10	12	120	0	70-130	20
tert-Butylbenzene	ND	10	11	110	10	12	120	9	70-130	20
o-Chlorotoluene	ND	10	12	120	10	12	120	0	70-130	20
p-Chlorotoluene	ND	10	12	120	10	12	120	0	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	6.8	68	10	7.1	71	4	41-144	20
Hexachlorobutadiene	ND	10	8.8	88	10	9.3	93	6	63-130	20
Isopropylbenzene	ND	10	12	120	10	12	120	0	70-130	20
p-Isopropyltoluene	ND	10	12	120	10	12	120	0	70-130	20
Naphthalene	20	10	35	150 Q	10	36	160 Q	3	70-130	20
n-Propylbenzene	ND	10	12	120	10	13	130	8	69-130	20
1,2,3-Trichlorobenzene	ND	10	9.3	93	10	9.8	98	5	70-130	20
1,2,4-Trichlorobenzene	ND	10	9.5	95	10	9.8	98	3	70-130	20
1,3,5-Trimethylbenzene	ND	10	12	120	10	12	120	0	64-130	20



# Matrix Spike Sample Summary

## Form 3

### Volatiles

Client : AKRF, Inc.	Lab Number : L2433259
Project Name : BUD NORTH	Project Number : 200112
Client Sample ID : MW-1_20240612	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2433259-05	Analysis Date : 06/18/24 03:01
Matrix Spike : WG1935961-6	MS Analysis Date : 06/18/24 05:58
Matrix Spike Dup : WG1935961-7	MSD Analysis Date : 06/18/24 06:23

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
1,2,4-Trimethylbenzene	ND	10	12	120	10	12	120	0	70-130	20
1,4-Dioxane	ND	500	450	90	500	470	94	4	56-162	20
p-Diethylbenzene	ND	10	11	110	10	12	120	9	70-130	20
p-Ethyltoluene	ND	10	12	120	10	12	120	0	70-130	20
1,2,4,5-Tetramethylbenzene	ND	10	10	100	10	10	100	0	70-130	20
Ethyl ether	ND	10	9.6	96	10	9.9	99	3	59-134	20
trans-1,4-Dichloro-2-butene	ND	10	1.4J	14 Q	10	1.4J	14 Q	0	70-130	20



# Calibration Verification Summary

## Form 7

### Volatiles

Client : AKRF, Inc.  
 Project Name : BUD NORTH  
 Instrument ID : VOA105  
 Lab File ID : V05240617N01  
 Sample No : WG1935961-2  
 Channel :

Lab Number : L2433259  
 Project Number : 200112  
 Calibration Date : 06/17/24 19:25  
 Init. Calib. Date(s) : 06/03/24 06/04/24  
 Init. Calib. Times : 21:44 01:58

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	62	0
Dichlorodifluoromethane	0.333	0.336	-	-0.9	20	65	0
Chloromethane	0.255	0.271	-	-6.3	20	69	0
Vinyl chloride	0.328	0.385	-	-17.4	20	74	0
Bromomethane	0.186	0.121	-	34.9*	20	43	0
Chloroethane	0.205	0.281	-	-37.1*	20	81	.01
Trichlorofluoromethane	0.524	0.556	-	-6.1	20	67	0
Ethyl ether	0.129	0.127	-	1.6	20	64	0
1,1-Dichloroethene	0.261	0.276	-	-5.7	20	65	0
Carbon disulfide	0.871	0.98	-	-12.5	20	72	0
Freon-113	0.296	0.324	-	-9.5	20	68	0
Acrolein	0.027	0.026	-	3.7	20	64	-.01
Methylene chloride	0.261	0.282	-	-8	20	71	0
Acetone	0.037	0.043	-	-16.2	20	75	0
trans-1,2-Dichloroethene	0.255	0.268	-	-5.1	20	67	0
Methyl acetate	0.092	0.098	-	-6.5	20	69	0
Methyl tert-butyl ether	0.549	0.526	-	4.2	20	60	0
tert-Butyl alcohol	0.013	0.011	-	15.4	20	56	0
Diisopropyl ether	0.693	0.742	-	-7.1	20	68	0
1,1-Dichloroethane	0.45	0.522	-	-16	20	73	0
Halothane	0.205	0.212	-	-3.4	20	65	-.01
Acrylonitrile	0.046	0.052	-	-13	20	72	0
Ethyl tert-butyl ether	0.66	0.648	-	1.8	20	62	0
Vinyl acetate	0.331	0.435	-	-31.4*	20	93	0
cis-1,2-Dichloroethene	0.284	0.3	-	-5.6	20	66	-.01
2,2-Dichloropropane	0.395	0.444	-	-12.4	20	71	0
Bromochloromethane	0.132	0.134	-	-1.5	20	63	0
Cyclohexane	0.443	0.507	-	-14.4	20	74	0
Chloroform	0.454	0.495	-	-9	20	68	0
Ethyl acetate	0.143	0.144	-	-0.7	20	67	0
Carbon tetrachloride	0.404	0.375	-	7.2	20	58	0
Tetrahydrofuran	0.042	0.042	-	0	20	68	0
Dibromofluoromethane	0.273	0.26	-	4.8	20	60	0
1,1,1-Trichloroethane	0.429	0.452	-	-5.4	20	66	0
2-Butanone	0.056	0.058	-	-3.6	20	65	0
1,1-Dichloropropene	0.35	0.381	-	-8.9	20	70	0
Benzene	0.991	1.121	-	-13.1	20	71	0
tert-Amyl methyl ether	0.594	0.537	-	9.6	20	57	0
1,2-Dichloroethane-d4	0.281	0.315	-	-12.1	20	67	0
1,2-Dichloroethane	0.298	0.336	-	-12.8	20	70	0
Methyl cyclohexane	0.466	0.491	-	-5.4	20	68	0
Trichloroethene	0.283	0.29	-	-2.5	20	67	0
Dibromomethane	0.142	0.148	-	-4.2	20	65	0

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : AKRF, Inc.  
 Project Name : BUD NORTH  
 Instrument ID : VOA105  
 Lab File ID : V05240617N01  
 Sample No : WG1935961-2  
 Channel :

Lab Number : L2433259  
 Project Number : 200112  
 Calibration Date : 06/17/24 19:25  
 Init. Calib. Date(s) : 06/03/24 06/04/24  
 Init. Calib. Times : 21:44 01:58

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.244	0.273	-	-11.9	20	71	0
Bromodichloromethane	0.347	0.348	-	-0.3	20	65	0
1,4-Dioxane	0.00152	0.00142*	-	6.6	20	60	0
cis-1,3-Dichloropropene	0.399	0.405	-	-1.5	20	65	0
Chlorobenzene-d5	1	1	-	0	20	61	0
Toluene-d8	1.243	1.286	-	-3.5	20	62	0
Toluene	0.826	0.905	-	-9.6	20	68	0
4-Methyl-2-pentanone	0.062	0.063	-	-1.6	20	58	0
Tetrachloroethene	0.405	0.391	-	3.5	20	58	0
trans-1,3-Dichloropropene	0.421	0.441	-	-4.8	20	64	0
Ethyl methacrylate	0.26	0.25	-	3.8	20	57	0
1,1,2-Trichloroethane	0.198	0.223	-	-12.6	20	68	0
Chlorodibromomethane	0.325	0.285	-	12.3	20	54	0
1,3-Dichloropropane	0.406	0.457	-	-12.6	20	67	0
1,2-Dibromoethane	0.261	0.253	-	3.1	20	56	0
2-Hexanone	0.102	0.105	-	-2.9	20	62	0
Chlorobenzene	0.907	0.971	-	-7.1	20	65	0
Ethylbenzene	1.631	1.79	-	-9.7	20	67	0
1,1,1,2-Tetrachloroethane	0.334	0.316	-	5.4	20	57	0
p/m Xylene	0.637	0.698	-	-9.6	20	67	0
o Xylene	0.605	0.649	-	-7.3	20	65	0
Styrene	0.986	1.07	-	-8.5	20	66	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	60	0
Bromoform	0.348	0.255	-	26.7*	20	46	0
Isopropylbenzene	3.014	3.185	-	-5.7	20	66	0
4-Bromofluorobenzene	0.831	0.829	-	0.2	20	60	0
Bromobenzene	0.712	0.703	-	1.3	20	60	0
n-Propylbenzene	3.447	3.863	-	-12.1	20	69	0
1,4-Dichlorobutane	0.627	0.696	-	-11	20	71	0
1,1,2,2-Tetrachloroethane	0.481	0.518	-	-7.7	20	68	0
4-Ethyltoluene	2.842	3.074	-	-8.2	20	67	0
2-Chlorotoluene	1.947	2.165	-	-11.2	20	69	0
1,3,5-Trimethylbenzene	2.534	2.665	-	-5.2	20	65	0
1,2,3-Trichloropropane	0.383	0.429	-	-12	20	71	0
trans-1,4-Dichloro-2-buten	0.135	0.142	-	-5.2	20	62	0
4-Chlorotoluene	2.041	2.217	-	-8.6	20	68	0
tert-Butylbenzene	2.203	2.291	-	-4	20	64	0
1,2,4-Trimethylbenzene	2.457	2.547	-	-3.7	20	63	0
sec-Butylbenzene	3.17	3.428	-	-8.1	20	67	0
p-Isopropyltoluene	2.758	2.853	-	-3.4	20	63	0
1,3-Dichlorobenzene	1.365	1.427	-	-4.5	20	63	0
1,4-Dichlorobenzene	1.381	1.44	-	-4.3	20	63	0
p-Diethylbenzene	1.612	1.596	-	1	20	62	0

\* Value outside of QC limits.



# Matrix Spike Sample Summary

## Form 3

### Petroleum

Client : AKRF, Inc.	Lab Number : L2433259
Project Name : BUD NORTH	Project Number : 200112
Client Sample ID : MW-1_20240612	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2433259-05	Analysis Date : 06/20/24 18:10
Matrix Spike : WG1935240-4	MS Analysis Date : 06/20/24 19:38
Matrix Spike Dup : WG1935240-5	MSD Analysis Date : 06/20/24 21:06

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Nonane (C9)	ND	240	121	50	236	89.3	38 Q	30	50-150	30
Decane (C10)	ND	240	173	72	236	131	55	28	50-150	30
Dodecane (C12)	1.91	240	235E	97	236	192E	81	20	50-150	30
Tetradecane (C14)	ND	240	250E	104	236	210E	89	18	50-150	30
Hexadecane (C16)	5.55	240	259E	105	236	218E	90	17	50-150	30
Octadecane (C18)	13.9	240	271E	107	236	228E	91	17	50-150	30
Nonadecane (C19)	ND	240	353E	147	236	293E	124	19	50-150	30
Eicosane (C20)	0.235	240	267E	111	236	226.E	96	17	50-150	30
Docosane (C22)	ND	240	258E	107	236	219E	93	16	50-150	30
Tetracosane (C24)	ND	240	273E	114	236	232E	98	16	50-150	30
Hexacosane (C26)	ND	240	257E	107	236	218E	93	16	50-150	30
Octacosane (C28)	3.29	240	262E	108	236	223E	93	16	50-150	30
Triacontane (C30)	ND	240	254E	106	236	215E	91	17	50-150	30
Hexatriacontane (C36)	ND	240	221E	92	236	182	77	19	50-150	30



**ATTACHMENT C**  
**SSDS AND SVES INSPECTION LOGS**

<b>SSDS MONITORING INSPECTION FORM</b> <b>Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY</b>			
<b>Inspector Name:</b>	M.Bates	<b>Date:</b>	6/12/2024
<b>Time In:</b>	9:00	<b>Time Out:</b>	17:00
<b>General</b>			
Weather: Sunny	Temperature: 75 deg F	Barometric Pressure:	30.04
1. When was the last rain event? May 30, 2024 (0.41 in)			
2. Is the blower currently operating? Yes <i>If no, please list reason/alarm condition:</i>			
3. Any evidence of system tampering, vandalism or damage in the first floor equipment room? - No			
4. Is air discharging from the exhaust piping to the roof? - Yes			
5. Any evidence of system tampering, vandalism, or damage to the exhaust stack? - No			
6. Were all cleanout/sampling port caps securely attached prior to system testing? - Yes  <i>If no, list location and contact Project Manager/Project Director.</i>			
7. Is the concrete floor slab overlying all of the SSDS piping runs intact? - Yes  <i>If no, list location and contact Project Manager/Project Director.</i>			



SSDS MONITORING INSPECTION FORM					
Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY					
Inspector Name: M.Bates		Date: 6/12/2024			
Time In: 9:00		Time Out: 17:00			
SSDS Operations					
Blower Inlet PID (ppm)		NA			
Monitoring Point (MP) or Riser Leg (RL) Identification	Location	Applied Vacuum <sup>1</sup> in. H <sub>2</sub> O	Induced Vacuum <sup>2</sup> in. H <sub>2</sub> O	Flow Rate <sup>1</sup> cfm	Notes
MP-01	Incoming Water Room	NA	1.02	NA	
MP-02	West Compactor/Recycle Room	NA	1.14	NA	
MP-03	West Compactor/Recycle Room	NA	0.96	NA	
MP-04	Fire Pump Room	NA	0.72	NA	
MP-05	Garage Storage	NA	1.04	NA	
MP-06	Back of House Vestibule	NA	1.01	NA	
MP-07	Bike Room (west)	NA	0.92	NA	
MP-08	Parking Garage	NA	1.06	NA	
MP-09	Package Room	NA	0.51	NA	
MP-10	Bike Room (east)	NA	0.97	NA	
MP-11	SVE Equipment Room	NA	0.64	NA	
MP-12	East Compactor Room	NA	0.98	NA	
MP-13	West Compactor Room	NA	0.93	NA	
MP-14	Water Service Room / SVE Equipment Room	NA	0.89	NA	
SSDS-N1		2.0	NA	42	
SSDS-N2		2.0	NA	38	
SSDS-N3		2.2	NA	5.0	
SSDS-N4		2.0	NA	0	Gauge read zero. Will replace during next inspection, if necessary.
SSDS-N5		1.8	NA	33	
SSDS-N6		1.8	NA	36	
SSDS-N7		1.6	NA	32	
SSDS-N8		2.0	NA	30	
SSDS-N9	Loading Dock	2.3	NA	10	
SSDS-N10		2.0	NA	48	
SSDS-N11		2.2	NA	5.0	
SSDS-N12		2.2	NA	34	
SSDS-N13		2.0	NA	34	
SSDS-N14		2.0	NA	22	
SSDS-N15		2.0	NA	30	
SSDS-N16		2.0	NA	52	
Combined applied vacuum on SSDS-1 riser =		2.4	NA	NA	
Combined applied vacuum on SSDS-2 riser =		2.8	NA	NA	
<b>Notes:</b>					
1. Normal system flow rates range from 5 to 100 cfm. Applied vacuum readings range from 1 to 15 in. H <sub>2</sub> O. System readings will be obtained from each riser leg (SSDS-N1 through SSDS-N16).					
2. Normal system induced vacuum readings should be a minimum of 0.004 in. H <sub>2</sub> O. System readings will be obtained from each monitoring point (MP-01 through MP-12).					
3. If observations are confirmed to be outside of this range, inform emergency contacts in SMP and prepare corrective action plan, if necessary.					
in. of H <sub>2</sub> O - inches of water			cfm - cubic feet per minute		

**SVE INSPECTION LOG**  
**MONTHLY SOIL VAPOR EXTRACTION SYSTEM INSPECTION**  
 Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY

<b>Inspector Name:</b> M.Bates	<b>Date:</b> 6/12/2024
<b>Time IN:</b> 900	<b>Time OUT:</b> 1700

**GENERAL**

Weather: Sunny      Temperature: 75 deg F      Barometric Pressure: 29.92      Equipment Room Temperature: 70 deg F

When was the last rain event? 5/30/2024

Is the SVE system being cycled on or off this month?  On  Off (circle one)  
 If issues cycling system on or off, ALERT PROJECT MANAGER and please describe issue:

Is the SVE blower currently operating?  Yes  No  
 If no, ALERT PROJECT MANAGER and please list reason/alarm condition:

What is the VFD setting? 60 Hz  
 If under 30 Hz, ALERT PROJECT MANAGER:

Is condensate in the knockout tank gauge below the low-high float sensor?  Yes  No  
 If no, ALERT PROJECT MANAGER and manually drain knockout tank

Is transfer pump working?  Yes  No  
 If no, ALERT PROJECT MANAGER.

Is 55-gallon drum full?  No  Yes  
 If yes, acknowledge alarm on panel and ALERT PROJECT MANAGER.

Any evidence of system tampering, vandalism or damage?  No  Yes  
 If yes, ALERT PROJECT MANAGER and please note findings:

Any evidence of system tampering, vandalism or damage to the exhaust stack?  No  Yes  
 If yes, ALERT PROJECT MANAGER and please note findings:

**Notes:** This SVE Inspection Log should be completed along with the sampling log for each sampling event.  
 PID - Photoionization Detector; ppm - parts per million; NA - Not applicable; GAC - Granular Activated Carbon

**Comments:**

Emergency Contact Information		
Name	Title	Contact Number
Marc Godick	AKRF Project Director	914-922-2356 (office)
Patrick Diggins	Project Manager	914-922-2356 (office)
		603-494-7090 (cell)
Chris Steinmann	Owner's Representative	917-295-0948 (cell)

**SVE INSPECTION LOG**  
**MONTHLY SOIL VAPOR EXTRACTION SYSTEM INSPECTION**  
 Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY

**SVE Operation**  
**CALL PROJECT MANAGER IF READING OUTSIDE ACCEPTABLE/TYPICAL RANGE (IN GRAY)**

Pre-Blower Inlet Temperature (°F): 40-80°F	Post-Blower Outlet Temperature (°F): 70-110°F	Knockout Tank Vacuum (Inches of water column): 0-50 inH2O
74	88	0
Pre-filter Vacuum (Inches of water column): 0-50 inH2O	Post-filter Vacuum (Inches of water column): 0-50 inH2O	Post-Blower Pressure (Inches of water column): 0-20 inH2O
4	6	25
GAC Influent PID (ppm):	GAC Intermediate PID (ppm): Less than GAC Influent PID	GAC Effluent PID (ppm): <1 ppm
ND	ND	ND

<i>Monitoring Location</i>	<b>Vacuum Reading</b> in. H2O	<b>Air Flow Reading</b> in. H2O	<b>Air Flow Reading</b> CFM	<b>Notes</b>
SVMP-01	10.2	na	na	
SVMP-02	0.98	na	na	
SVMP-03	1.13	na	na	
SVMP-04	0.87	na	na	
SVMP-05	0.85	na	na	
SVMP-06	0.71	na	na	
SVE-01	2.5		25	
SVE-02	2.6		44	
SVE-03	2.5		34	
SVE-04	2.5		20	
SVE-05	2.6		25	