December 5, 2022

Michael MacCabe
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7016

RE: Quarterly Groundwater Monitoring Report
January 2022 to July 2022 – 2nd, 3rd, and 4th Monitoring Events
561 Greenwich Street
New York, New York
BCP Site No.: C231129
Langan Project No.: 190043702

Dear Mr. MacCabe:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this letter report to summarize the quarterly performance groundwater monitoring events at 561 Greenwich Street in Manhattan, New York (the site). The site was remediated pursuant to a Brownfield Cleanup Agreement (BCA) (Site No. C231129) with the New York State Department of Environmental Conservation (NYSDEC). The remediation was completed and a Certificate of Completion (COC) was issued by NYSDEC on December 29, 2021.

Langan conducted quarterly performance groundwater monitoring events in accordance with the NYSDEC-approved December 2021 Site Management Plan (SMP), prepared by Langan. The second, third, and fourth quarterly performance groundwater monitoring events were completed in January, April, and July 2022, respectively. The SMP and results of the first quarterly performance groundwater monitoring event can be found in the NYSDEC-approved December 2021 Final Engineering Report (FER), prepared by Langan. Additionally, the results for the baseline, post-injection, and first quarterly performance groundwater monitoring event are provided in Table 1 of this report.

Background

The site is at 561 Greenwich Street in Manhattan, New York and is identified as Block 598, Lot 42 on the New York City (NYC) Manhattan Borough Tax Map. The about 20,045-square-foot site is bound by King Street to the north, a 17-story commercial office building to the east (Block 598, Lot 58), Charlton Street to the south, and Greenwich Street to the west. A site location map is provided as Figure 1.

The Rector, Church-Wardens, and Vestrymen of Trinity Church, in the city of New-York; 561 HH LLC; and Remainderman 561 Greenwich LLC (the Participants) entered into a BCA with the NYSDEC as Participants in the NYS Brownfield Cleanup Program (BCP) on July 24, 2019 to remediate the site. The site was assigned an E-Designation (E-288) by the New York City Department of City Planning (NYCDCP) as part of the March 20, 2013 Hudson Square Rezoning (City Environmental Quality Review [CEQR] No.

12DCP045M). The E-Designation for hazardous materials requires an environmental assessment of soil, groundwater, and soil vapor, which was satisfied by the remedial investigation performed pursuant to the BCA, and is administered by the New York City Office of Environmental Remediation (NYCOER). The site was remediated for restricted commercial use and, is improved with an 18-story commercial office building with ground-floor retail space and a full cellar. Construction is anticipated to be completed in April 2023.

Remediation was performed in advance of and concurrently with site redevelopment. The remediation included demolition, installation of a support of excavation (SOE) system, site-wide soil/fill excavation to elevation (el.) -2.5 (about 14 to 16 feet below grade surface [bgs]) with localized deeper excavation to el. -5 to remove petroleum-impacted soil, removal of underground storage tanks, recovery of light non-aqueous phase liquid (LNAPL), in-situ remediation of petroleum-impacted groundwater both on- and off-site, and site-wide groundwater dewatering and treatment of dewatered groundwater.

The NYSDEC-approved March 10, 2020 Remedial Action Work Plan (RAWP) anticipated that off-site petroleum impacts in groundwater (NYSDEC Spill No. 1801068) would be addressed via on-site dewatering and treatment during site-wide remediation, in addition to in-situ remediation via sodium persulfate and powdered activated carbon (PAC) injections

Groundwater Treatment

A two-phase in-situ groundwater treatment program, consisting of in situ chemical oxidation (ISCO) injections followed by activated carbon (PAC or Petrofix) injections, was performed to treat petroleum-impacted groundwater associated with NYSDEC Spill No. 1801068. In-situ treatment and injection events were performed during the events listed below:

- On- and off-site ISCO injections – March 6 to March 20, 2020
- On-site PAC injections – August 24 to August 28, 2020
- On-site dewatering and treatment – April 2 to June 25, 2021
- Off-site dewatering and treatment – April 19 to June 28, 2021
- Off-site Petrofix injections – July 30 to August 5, 2021

Groundwater Sampling

Post-injection groundwater samples were collected from off-site monitoring wells MW21, MW22, and MW23 on June 19, 2020; April 20 and 21, 2021; and August 20, 2021. Quarterly off-site performance groundwater monitoring began on September 16, 2021 and was conducted for the second, third, and fourth quarters on January 21, April 15, and July 26 and 27, 2022, respectively. A groundwater analytical results map is included as Figure 2.

Quarterly groundwater performance monitoring to assess volatile organic compound (VOC) concentrations in groundwater will continue, as determined by the NYSDEC in consultation with New York State Department of Health (NYSDOH), until residual groundwater concentrations are below the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) and Guidance Values (SGV) for Class GA Water (collectively referred to as SGVs) or are asymptotic at an acceptable level over an extended period. As stated in the SMP, groundwater monitoring for VOCs will continue on a quarterly basis for two years following the in-situ remedy, and on an annual basis thereafter.

Analytical results for the baseline, post-injection, and quarterly groundwater performance monitoring events are presented in Table 1. The post-injection groundwater monitoring events and first quarterly performance groundwater monitoring event are summarized in the December 2021 FER.

To access monitoring wells MW22 and MW23 during construction, a central monitoring well access network was installed on August 6, 2021 by inserting polyethylene tubing into MW22 and MW23. Three

off-site recovery wells (OS_RW01 – OS_RW03) were also connected to the central monitoring well access network via polyethylene tubing. Individual lengths of tubing were extended into each respective monitoring well to about 2 feet above the bottom of the well screen. The five individual tubing extensions were then threaded through 4-inch diameter polyvinyl chloride (PVC) tubing that was installed in an excavated access trench approximately 10 inches bgs. The PVC tubing and access trench extends to a central collection manhole in the southwestern part of the site. The PVC tubing was encased in concrete to protect the central monitoring well access network during construction. Due to the installation of the monitoring well access network, depth to groundwater measurements were not recorded for MW22 and MW23 during the second, third, and fourth quarterly performance groundwater monitoring events.

This groundwater monitoring report presents the findings from the second, third, and fourth quarterly performance groundwater monitoring events occurring January, April, and July 2022, respectively.

Second Quarterly Groundwater Monitoring Event – January 2022

Groundwater monitoring wells MW21, MW22, and MW23 were sampled on January 28, 2022 in accordance with the United States Environmental Protection Agency (USEPA) low-flow groundwater sampling procedure ("Low Stress [low-flow] Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells," dated July 30, 1996 and revised September 19, 2017).

Prior to sampling, the monitoring well manhole cover at MW21 was observed to be damaged. The PVC riser pipe at MW21 extended above the manhole casing and the protective J-plug at MW21 was broken; therefore, the well casing was open to the sidewalk above. No evidence of damage was observed at the central access manhole for monitoring wells MW22 and MW23. Following completion of the monitoring event, Langan oversaw repair and replacement of the MW21 well cover and J-Plug by Lakewood Environmental Services Corp. of Smithtown, New York in February 2022.

Langan used a photoionization detector (PID) to record the initial headspace VOC reading (recorded in parts per million [ppm]) from MW21 and the central access manhole. At MW21, Langan measured the depth to groundwater using a Solinst oil/water interface probe. No NAPL was detected in MW21. Prior to sample collection, groundwater was purged from MW21, MW22, and MW23 while monitoring physical and chemical groundwater parameters (i.e., pH, conductivity, turbidity, dissolved oxygen [DO], temperature, and oxidation-reduction potential [ORP]). Groundwater was purged until physical and chemical groundwater parameters stabilized, after the well was purged for one hour, or until the well was purged dry, whichever was sooner. Purged groundwater from MW21 was light brown in color and had a petroleum-like odor. Purged groundwater from both MW22 and MW23 was dark brown to black and had no apparent odor. Groundwater measurements and observations were recorded on groundwater sampling logs, which are included in Attachment 1.

Prior to sampling, MW22 and MW23 were purged dry before groundwater quality parameters had stabilized. Both MW22 and MW23 were sampled after purging about 1 and about 0.5 gallons, respectively. MW21 was purged dry and then fully recharged before sampling. Groundwater samples were collected directly from the pump discharge line into laboratory supplied containers that were sealed, labeled, and placed in an ice-chilled cooler (to attempt to maintain a temperature of about 4°C), and relinquished under standard chain-of-custody protocol, to a courier for delivery to Alpha Analytical Laboratories (Alpha), a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory in Westborough, Massachusetts, for analysis of VOCs and sulfate via USEPA 8260C and 9038, respectively.

Third Quarterly Groundwater Monitoring Event – April 2022

Groundwater monitoring wells MW21, MW22, and MW23 were sampled on April 15, 2022 in accordance with the USEPA low-flow groundwater sampling procedure. Langan used a PID to record the initial headspace VOC reading (recorded in ppm) from MW21 and the central access manhole. At MW21, Langan measured the depth to groundwater using a Solinst oil/water interface probe. No NAPL was detected in MW21. Prior to sample collection, groundwater was purged from MW21, MW22, and MW23 while monitoring physical and chemical groundwater parameters (i.e., pH, conductivity, turbidity, DO, temperature, and ORP. Groundwater was purged until physical and chemical groundwater parameters stabilized, after the well was purged for one hour, or until the well was purged dry, whichever was sooner. Purged groundwater from MW21 was light brown in color and had a petroleum-like odor. Purged groundwater from both MW22 and MW23 was black to dark gray and had no apparent odor. Groundwater measurements and observations were recorded on groundwater sampling logs, which are included in Attachment 1.

Prior to sampling, MW21 was purged dry before groundwater quality parameters had stabilized. Groundwater in MW21 fully recharged before sampling, however, due to equipment power supply loss MW21 was sampled manually using a dedicated disposable polyethylene bailer. MW22 was purged dry and then sampled after fully recharging. MW23 was sampled after groundwater quality parameters had stabilized. MW22 and MW23 were sampled after purging about 2 and about 1.55 gallons, respectively. Groundwater samples were collected directly from the pump discharge line into laboratory supplied containers that were sealed, labeled, and placed in an ice-chilled cooler, and relinquished under standard chain-of-custody protocol, to a courier for delivery to Alpha for analysis of VOCs and sulfate via USEPA 8260C and 9038, respectively.

Fourth Quarterly Groundwater Monitoring Event – July 2022

Groundwater monitoring wells MW22 and MW23 were sampled on July 26, 2022, and MW21 was sampled on July 27, 2022, in accordance with the USEPA low-flow groundwater sampling procedure. To allow for adequate recharge, MW21 was gauged and purged on July 26, 2022.

Langan recorded an initial headspace VOC reading (recorded in ppm), using a PID from MW21 and the central access manhole. At MW21, Langan measured the depth to groundwater using a Solinst oil/water interface probe. No NAPL was detected in MW21. Prior to collecting groundwater samples, each well was purged using a peristaltic pump. During purging, the turbidity, pH, temperature, conductivity, ORP, and DO were monitored using a Horiba U-52 water quality meter with a flow-through cell. Purged groundwater from MW21 was light brown in color and had a petroleum-like odor on July 26th, and was light brown in color and had no apparent odor on July 27th. Purged groundwater from both MW22 and MW23 was black and had no apparent odor. Groundwater measurements and observations were recorded on groundwater sampling logs, which are included in Attachment 1.

While purging, MW22 and MW23 did not have a sufficient recharge rate to purge three well volumes. Both MW22 and MW23 were sampled after purging about 0.53 and 0.76 gallons, respectively. Prior to sampling, MW21 was purged dry twice on July 26, 2022, and fully recharged before sampling on July 27, 2022. Groundwater samples were collected directly from the pump discharge line into laboratory supplied containers that were sealed, labeled, and placed in an ice-chilled cooler, and relinquished under standard chain-of-custody protocol, to a courier for delivery to Alpha for analysis of VOCs and sulfate via USEPA 8260C and 9038, respectively.

A table summarizing the initial headspace reading and the initial groundwater elevation measurement at each well is summarized below.

Well Number	Second Quarterly Groundwater Monitoring Event – January 2022		Third Quarterly Groundwater Monitoring Event – April 2022		Fourth Quarterly Groundwater Monitoring Event – July 2022	
	Headspace Reading (ppm)	Depth to Water (Feet bgs)	Headspace Reading (ppm)	Depth to Water (Feet bgs)	Headspace Reading (ppm)	Depth to Water (Feet bgs)
MW21	37.5	6.93	0.1	6.07	1.2	8.4
MW22	0.0	NA	0.0	NA	0.0	NA
MW23	0.0	NA	0.0	NA	0.0	NA

NA = Not applicable due to monitoring well access network

Groundwater samples were collected using a Solinst 410 peristaltic pump, except for sample MW21_041522 from MW21 that was collected using a dedicated disposable polyethylene bailer during the third quarterly sampling event. For quality assurance and quality control (QA/QC), one field blank, one duplicate, and one matrix spike/matrix spike duplicate (MS/MSD) was collected during each sampling event. A trip blank was included in each shipment for quality control during transport. All samples were analyzed for TCL VOCs and sulfate by Alpha in Westborough, Massachusetts.

Quality Assurance/Quality Control

The duplicate sample results from the quarterly performance groundwater monitoring events are presented in Table 1 alongside the parent sample. Analytical results for the second, third, and fourth quarterly sampling event field and trip blank samples are summarized in Table 2.

A field blank sample was collected during each quarterly sampling event to determine the effectiveness of the laboratory decontamination procedures for laboratory-supplied bottleware and to identify the presence of any ambient contamination at the field site. The field blanks were collected by pouring deionized water provided by the laboratory directly into sample bottleware.

A coded field duplicate was collected during each quarterly sampling event to evaluate the precision of the analytical methods and uniformity of the sample matrix. The duplicates were collected from the same material as the primary sample by splitting the volume of sample collected in the field into two sample containers. The samples are termed "coded" because they were labeled in such a manner that the laboratory would not be able to determine the parent sample associated with the duplicate sample. This coding serves to eliminate possible bias that could arise during lab analysis. The field duplicates were analyzed for the same parameters as the parent sample.

A trip blank sample was collected during each quarterly sampling event to assess the potential for contamination of the sample containers and samples during the trip from the laboratory, to the field, and back to the laboratory for analysis. Trip blanks contain about 40 milliliters of acidic water (doped with hydrochloric acid) in vials sealed by the laboratory when the empty sample containers are shipped to the field, and are unsealed and analyzed by the laboratory when a sample shipment is received from the field.

Validation Overview

Data validation was performed in accordance with USEPA Region II Standard Operating Procedure (SOP) #HW-34, "Trace Volatile Data Validation" (February 19, 2013, Revision 3). Validation includes reconstruction of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. The data was found to be valid and usable for its intended application. A Data Usability Summary Report (DUSR) is included in Attachment 2.

Groundwater Monitoring Analytical Results

Laboratory analytical data was compared to the NYSDEC SGVs. The laboratory analytical reports are included as Attachment 3.

Second Quarterly Groundwater Monitoring Event – January 2022

Ten VOCs were detected above the SGVs in groundwater samples collected from MW21, MW22, and MW23 during the January 2022 sampling event. The following table provides a summary of each VOC that exceeded the SGVs.

Baseline Results and January 2022 Groundwater Monitoring Event Summary of Exceedances							
Analyte	**NYSDEC SGV (µg/L)**	**MW21**		**MW22**		**MW23**	
		Baseline	**Q2**	**Baseline**	**Q2***	**Baseline**	**Q2**
1,2,4-Trimethylbenzene	5	1,100	490	1,400 J	–	1,600 J	–
1,3,5-Trimethylbenzene	5	180	80 J	390	–	470	–
Acetone	50	–	160 J	150 J	54	–	–
Benzene	1	140	1,400	2,200	4.6 J	22	–
Bromomethane	5	–	–	–	–	–	7.5 J
Ethylbenzene	5	690	980	920	–	950	–
M,P-Xylene	5	1,200	4,800	4,000	–	4,000	–
O-Xylene	5	69	2,900	2,200	–	700	–
Toluene	5	89	8,700	8,000	–	300	–
Total Xylenes	5	1,300	7,700	6,200	–	4,700	–
Total BTEX	NS	2,219	18,780	17,320	6.2	5,972	–
Total VOCs	NS	4,328.8	19,800	21,018	87.7	9,857	70.4

NS = no standard
µg/L = microgram per liter
– = sample did not exceed NYSDEC SGVs
*results reported for duplicate sample GWDUP01_012822

The extent of the petroleum-related VOC-impacted groundwater has decreased relative to the baseline sampling event after implementation of the two-phase groundwater treatment program. Comparing analytical results from the November 2018 baseline event to the January 2022 sampling event indicates a significant decrease in total benzene, toluene, ethyl benzene, and xylene (BTEX) constituents and VOCs in monitoring wells MW23 and MW23: In contrast, there was a notable increase in petroleum related VOCs in groundwater in MW21, relative to the baseline.

January 2022 Groundwater Monitoring Event Percent Reduction from November 2018 Baseline Event			
Analyte	**MW21**	**MW22***	**MW23**
Total BTEX	+ 746%	- 99.96%	- 100%
Total VOCs	+ 357%	- 99.58%	- 99.29%

*baseline event results compared to duplicate sample GWDUP01_012822

At MW21, BTEX compounds were detected at concentrations one to two magnitudes higher than the baseline sampling event. Concentrations in MW21 decreased from the baseline sampling event for the VOCs 1,2,4,5-tetramethylbenzene; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; isopropylbenzene; naphthalene; and n-propylbenzene. During the January 2022 sampling event, MW21 was purged dry prior

to sampling and was sampled after groundwater within the well fully recharged. In response to the analytical results from this well and petroleum-like odors identified during sampling, Langan returned to the site on February 15, 2022 to purge groundwater from MW21 and to oversee off-site disposal of previously containerized purge water.

Third Quarterly Groundwater Monitoring Event – April 2022

Fourteen VOCs were detected above the SGVs in groundwater samples collected from MW21, MW22, and MW23 during the April 2022 sampling event. The following table provides a summary of each VOC that exceeded the SGVs.

Baseline Results and April 2022 Groundwater Monitoring Event
Summary of Exceedances

Analyte	NYSDEC SGV (µg/L)	MW21		MW22		MW23	
		Baseline	Q3	Baseline	Q3	Baseline	Q3*
1,2,4-Trimethylbenzene	5	1,100	1,100	1,400 J	–	1,600 J	–
1,2,4,5-Trimethylbenzene	5	57	57	68 J	–	52 J	–
1,3,5-Trimethylbenzene	5	180	310	390 J	–	470 J	–
Acetone	50	–	100	150 J	190	–	55J
Benzene	1	140	340	2,200	–	22	–
Bromomethane	5	–	–	–	–	–	7.6 J
Ethylbenzene	5	690	400	920	–	950	–
Isopropylbenzene	5	38	56	–	–	93	–
M,P-Xylene	5	1,200	2,200	4,000	–	4,000	–
n-Propylbenzene	5	96	140	140 J	–	150	–
Naphthalene	10	310	130	360 J	–	440 J	–
O-Xylene	5	69	1,000	2,200	–	700	–
Toluene	5	89	1,900	8,000	–	300	–
Total Xylenes	5	1,300	3,200	6,200	–	4,700	–
Total BTEX	NS	2,219	5,840	17,320	–	5,972	–
Total VOCs	NS	4,328.8	8,833	21,018	201	9,857	68.9

NS = no standard
µg/L = microgram per liter
– = sample did not exceed NYSDEC SGVs
*results reported for duplicate sample GWDUP01_041522

The extent of the petroleum-related VOC-impacted groundwater has decreased relative to the baseline sampling event after implementation of the two-phase groundwater treatment program. Comparing analytical results from the November 2018 baseline event to the April 2022 sampling event indicates a significant decrease in total BTEX constituents and VOCs in monitoring wells MW23 and MW23.

Petroleum-related VOC concentrations in MW21 were generally similar to the baseline concentrations, but were notably less than the Q2 results:

April 2022 Groundwater Monitoring Event Percent Reduction from November 2018 Baseline Event			
Analyte	**MW21**	**MW22**	**MW23**
Total BTEX	+ 163%	- 100%	- 100%
Total VOCs	+ 104%	- 99.04%	- 99.30%

*baseline event results compared to duplicate sample GWDUP01_041522

At MW21, VOCs were detected at concentrations up to two magnitudes higher than the baseline sampling event, but were generally similar. Concentrations of both total BTEX and total VOCs decreased compared to the second quarter sampling event. Total BTEX and total VOCs detected in MW21 in the April 2022 sampling event were about one-third and one-half, respectively, of the January 2022 sampling event concentrations. Naphthalene, n-propylbenzene, and isopropylbenzene, which were not detected in the January 2022 sampling event, were detected above the SGVs in the April 2022 sampling event.

Fourth Quarterly Groundwater Monitoring Event – July 2022

Fifteen VOCs were detected above the SGVs in groundwater samples collected from MW21, MW22, and MW23 during the July 2022 sampling event. The following table provides a summary of each VOC that exceeded the SGVs.

Baseline Results and July 2022 Groundwater Monitoring Event Summary of Exceedances							
Analyte	**NYSDEC SGV (µg/L)**	**MW21**		**MW22**		**MW23**	
		Baseline	**Q4**	**Baseline**	**Q4**	**Baseline**	**Q4**
1,2,4-Trimethylbenzene	5	1,100	140	1,400 J	–	1,600 J	–
1,2,4,5-Trimethylbenzene	5	57	7.2 J	68 J	–	52 J	–
1,3,5-Trimethylbenzene	5	180	37	390 J	–	470 J	–
2-Hexanone	50	–	200	–	–	–	–
Acetone	50	–	170	150 J	–	–	–
Benzene	1	140	440	2,200	1.5	22	–
Bromomethane	5	–	–	–	–	–	6.8 J
Ethylbenzene	5	690	55	920	–	950	–
M,P-Xylene	5	1,200	720	4,000	–	4,000	–
Methyl ethyl ketone	50	–	52	–	–	–	–
Naphthalene	10	310	46	360 J	–	440 J	–
O-Xylene	5	69	500	2,200	–	700	–
Tert-Butyl Methyl Ether (MTBE)	10	–	14 J	–	–	–	–
Toluene	5	89	1,000	8,000	–	300	–
Total Xylenes	5	1,300	1,200	6,200	–	4,700	–
Total BTEX	NS	2,219	2,695	17,320	3.8	5,972	–
Total VOCs	NS	4,328.8	3,473.2	21,018	34.75	9,857	75.8

NS = no standard
µg/L = microgram per liter
– = sample did not exceed NYSDEC SGVs

The extent of the petroleum-related VOC-impacted groundwater has decreased relative to the baseline sampling event after implementation of the two-phase groundwater treatment program. Comparing analytical results from the November 2018 baseline event to the July 2022 sampling event indicates a significant decrease in total BTEX constituents and VOCs for all wells with the exception of total BTEX in MW21, which are generally similar to those detected in Q3:

July 2022 Groundwater Monitoring Event Percent Reduction from November 2018 Baseline Event			
Analyte	**MW21**	**MW22**	**MW23**
Total BTEX	+ 21.45%	- 99.98%	- 100%
Total VOCs	- 19.77%	- 99.83%	- 99.23%

At MW21, benzene, ethylbenzene, o-xylene, and m/p-xylene were detected at concentrations about one order of magnitude lower than the second quarterly event (January 2022), but at similar concentrations to the baseline event (November 2018) and the third quarter sampling event (April 2022). Concentrations of 2-hexanone and MTBE were detected for the first time in MW21 during the fourth quarterly sampling event. The analytes n-propylbenzene and isopropylbenzene were detected in the third quarterly event; however, they were not detected in the fourth quarterly sampling event.

During the Q1 through Q4 quarterly groundwater monitoring events, a slow groundwater recharge rate necessitated groundwater sample collection prior to stabilization of physical and chemical groundwater parameters. To increase transmissivity of groundwater into MW21 and efficiently collect a representative groundwater sample, MW21 will be decommissioned and reinstalled in conjunction with installation of a new sidewalk (anticipated during the first quarter of 2023). Langan proposes a temporary suspension of groundwater sampling until the replacement well is installed. Following installation of the replacement well, Langan will continue quarterly groundwater monitoring events for MW21 to evaluate performance of the groundwater remedy.

Post-injection and quarterly groundwater sample analytical results are presented in Table 1.

Geochemical Conditions

Geochemical parameters, including pH, ORP, and DO, were field documented at each monitoring well during purging (Attachment 1). Sulfate (as SO_4) was also analyzed by the laboratory. The analytical laboratory reports from the second, third, and fourth quarterly monitoring events are included in Attachment 3. The results and conclusions of the geochemical analyses are summarized as follows:

- DO and ORP levels indicated a subsurface aerobic environment during the fourth quarterly sampling event (July 2022) in all three wells. Aerobic conditions are favorable for the biodegradation of petroleum hydrocarbons.

Findings and Recommendations

Significant contaminant reduction has been achieved since the November 2018 baseline sampling event, as evidenced by the reduction in VOC concentrations at MW22 (-99.83%) and MW23 (-99.23%). Total VOC concentrations detected at MW21 increased significantly in the second quarterly sampling event (January 2022) compared to the baseline concentrations (+357%), but decreased in the third (+104%) and fourth (-19.77%) quarterly sampling events to concentrations similar to the baseline sampling event. The declining trend at monitoring well MW21 between the second and fourth quarterly events is expected to continue as further degradation occurs over time.

Langan proposes discontinuing quarterly groundwater monitoring at monitoring wells MW22 and MW23, where significant contaminant reduction has been demonstrated over the past 4 quarterly sampling events. If acceptable to the NYSDEC, the wells will be decommissioned in-place in accordance with NYSDEC Commissioner Policy 43 (CP-43). Additionally, Langan proposes temporarily suspending quarterly groundwater sample collection from MW21 until the well can be reinstalled concurrent with sidewalk replacement during the first quarter of 2023. Once accessible, a new 4-inch-diameter monitoring well will be installed with a 15-foot-long well screen to maximize groundwater recovery during subsequent sampling events. Following well reinstallation, Langan will resume quarterly groundwater monitoring at MW21.

Sincerely,

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C

DRAFT

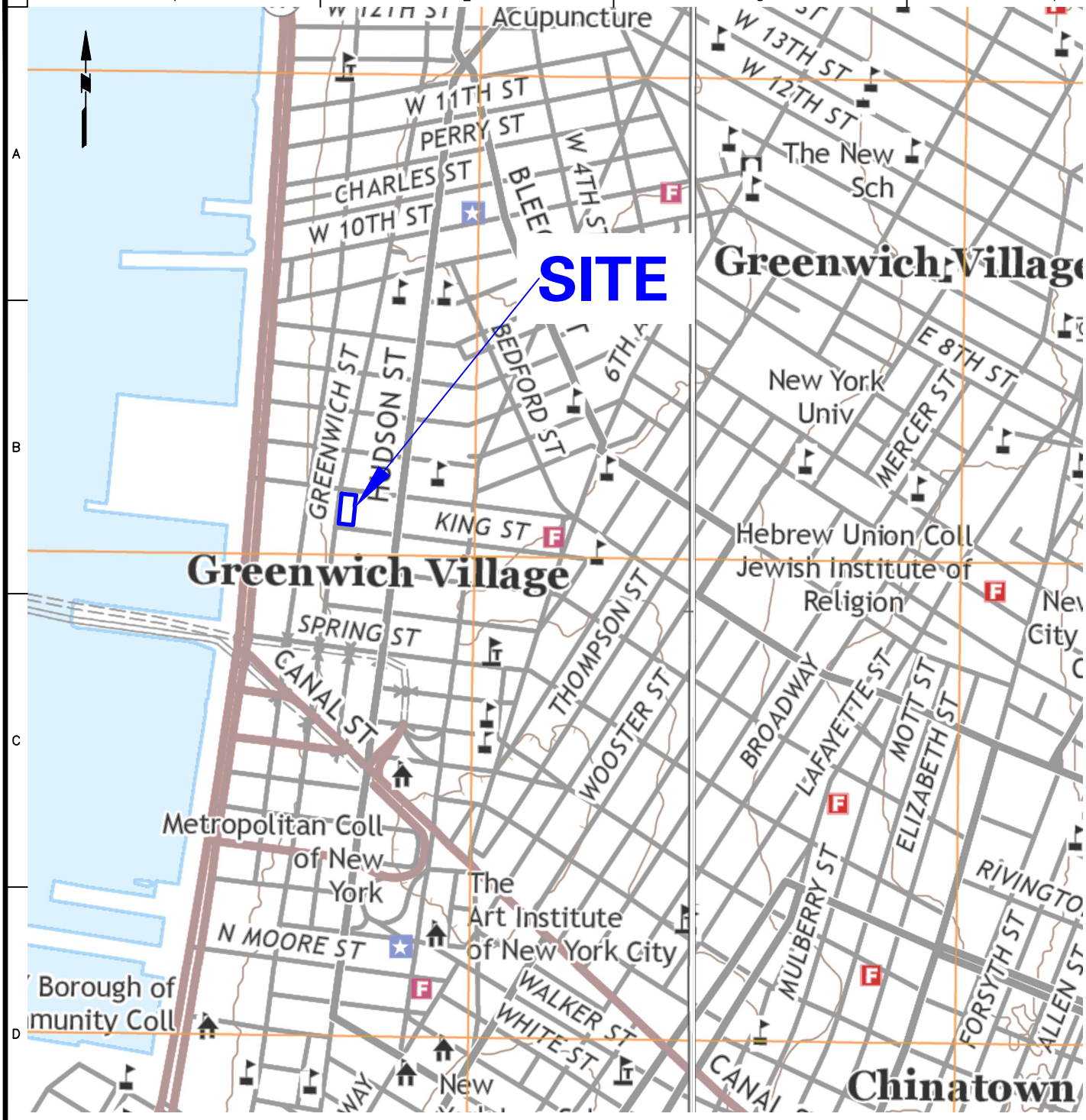
Michael D. Burke, PG, CHMM
Principal/Vice President

Enclosures:

Figure 1	Site Location Map
Figure 2	Groundwater Sample Analytical Results Map
Table 1	Baseline, Post-Injection, and Quarterly Performance Groundwater Sample Analytical Results
Table 2	Q2 – Q4 Quality Assurance/Quality Control Sample Analytical Results
Attachment 1	Groundwater Sampling Logs
Attachment 2	Data Usability Summary Report
Attachment 3	Laboratory Analytical Reports

cc: Paul McMahon, Elizabeth Adkins – Langan
Matthew Fox – The Rector, Church-Wardens, and Vestrymen of Trinity Church, in the city of New-York
561 HH LLC
Remainderman 561 Greenwich LLC
Aliza Cinnamon – Proskauer Rose LLP

FIGURES



NOTES:

1. BASE MAP IS REFERENCED FROM UNITED STATES GEOLOGICAL SURVEY (USGS) 7.5-MINUTE SERIES TOPOGRAPHICAL MAPS, JERSEY CITY AND BROOKLYN QUADRANGLES, DATED 2016.

1000 0 500 1000

SCALE IN FEET

LANGAN

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

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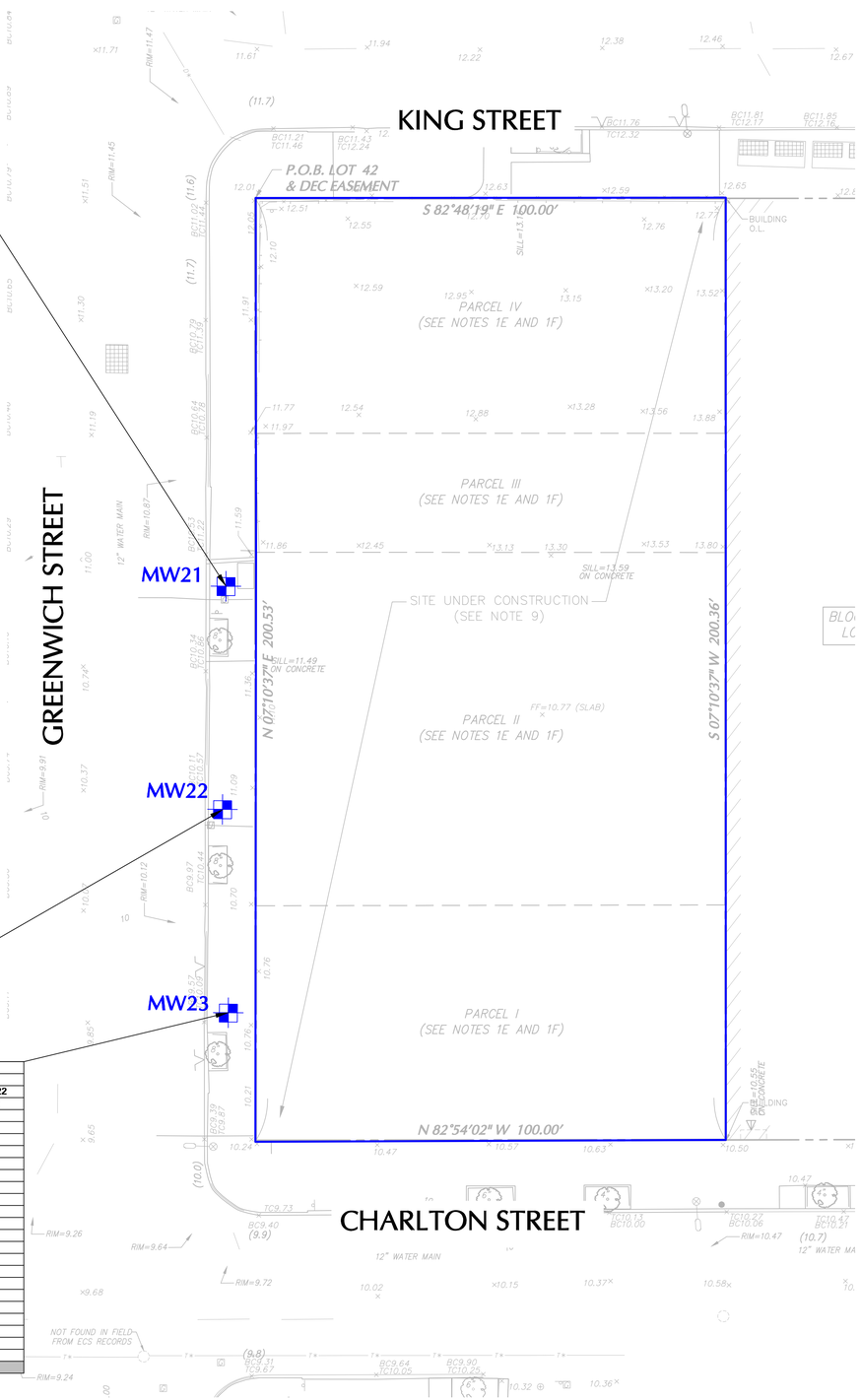
Project	561 GREENWICH STREET BLOCK No. 598 LOT No. 42 NEW YORK NEW YORK
Figure Title	SITE LOCATION MAP
Project No.	190043702
Date	10/1/2021
Drawn By	KR
Checked By	ERA
Figure No.	1
Sheet	1 of 2

Filename: \\langan.com\data\WPW\data7\190043701\Project Data\CAD\01\SheetFiles\Environmental\BCP - FER\Figure 1 - Site Location Map.dwg Date: 9/27/2021 Time: 10:34 User: kracanelli Style Table: Langan.stb Layout: Site Location Map

Sampling Event	Baseline	Q2	Q3	Q4
Location	MW21	MW21	MW21	MW21
Sample Name	MW21_110618	MW21_012822	MW21_041522	MW21_072722
Sample Date	11/06/2018	01/28/2022	04/15/2022	07/27/2022
VOCs				
1,2,4,5-Tetramethylbenzene	**57**	<200 U	**57**	**7.2 J**
1,2,4-Trimethylbenzene	**1,100**	**490**	**1,100**	**140**
1,3,5-Trimethylbenzene (Mesitylene)	**180**	**80 J**	**310**	**37**
2-Hexanone (MBK)	<50 U	<500 U	<100 U	**200**
Acetone	<50 U	**160 J**	**100**	**170**
Benzene	**140**	**1,400**	**340**	**440**
Bromomethane	<25 U	<250 UJ	<50 U	<25 U
Ethylbenzene	**690**	**980**	**400**	**55**
Isopropylbenzene (Cumene)	**38**	<250 U	**56**	<25 U
M,P-Xylene	**1,200**	**4,800**	**2,200**	**720**
Methyl Ethyl Ketone (2-Butanone)	<50 U	<500 U	<100 U	**52**
Naphthalene	**310**	<250 U	**130**	**46**
n-Progylbenzene	**96**	<250 U	**140**	<25 U
o-Xylene (1,2-Dimethylbenzene)	**69**	**2,900**	**1,000**	**500**
Tert-Butyl Methyl Ether	<25 U	<250 U	<50 U	**14 J**
Toluene	**89**	**8,700**	**1,900**	**1,000**
Total Xylenes	**1,300**	**7,700**	**3,200**	**1,200**
Total BTEX	2,219	18,780	5,840	2,695
Total VOCs	4,328.8	19,800	8,833	3,473.2
General Chemistry				
Sulfate (As SO4)	NA	140,000	85,000	200,000

Sampling Event	Baseline	Q2	Q2	Q3	Q4
Location	MW22	MW22	MW22	MW22	MW22
Sample Name	MW22_110718	MW22_012822	GWDUP01_012822	MW22_041522	MW22_072622
Sample Date	11/07/2018	01/28/2022	01/28/2022	04/15/2022	07/26/2022
VOCs					
1,2,4,5-Tetramethylbenzene	**68 J**	<2 U	0.58 J	<2 U	<2 U
1,2,4-Trimethylbenzene	**1,400 J**	<2.5 U	0.89 J	<2.5 U	<2.5 U
1,3,5-Trimethylbenzene (Mesitylene)	**390 J**	<2.5 U	1.4 J	<2.5 U	<2.5 U
2-Hexanone (MBK)	<500 U	<5 U	<5 U	<5 U	<5 U
Acetone	**150 J**	42	**54**	**190**	24
Benzene	**2,200**	**1.5 J**	**4.6 J**	<0.5 U	**1.5**
Bromomethane	<250 U	4.4 J	2.3 J	<2.5 U	0.85 J
Ethylbenzene	**920**	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Isopropylbenzene (Cumene)	<250 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
M,P-Xylene	**4,000**	<2.5 U	0.76 J	<2.5 U	0.8 J
Methyl Ethyl Ketone (2-Butanone)	<500 U	4.7 J	14 J	11	6.1
Naphthalene	**360 J**	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Propylbenzene	**140 J**	<2.5 U	<2.5 U	<2.5 U	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	**2,200**	<2.5 U	0.8 J	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether	<250 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Toluene	**8,000**	<2.5 U	<2.5 U	<2.5 U	1.5 J
Total Xylenes	**6,200**	<2.5 U	1.6 J	<2.5 U	0.8 J
Total BTEX	17,320	1.5	6.2	ND	3.8
Total VOCs	21,018	60.08	87.7	201	34.75
General Chemistry					
Sulfate (As SO4)	NA	**590,000**	**680,000**	160,000	**300,000**

Sampling Event	Baseline	Q2	Q3	Q3	Q4	Q4
Location	MW23	MW23	MW23	MW23	MW23	MW23
Sample Name	MW23_110718	MW23_012822	MW23_041522	GWDUP01_041522	MW23_072622	DUP01_072622
Sample Date	11/07/2018	01/28/2022	04/15/2022	04/15/2022	07/26/2022	07/26/2022
VOCs						
1,2,4,5-Tetramethylbenzene	**52 J**	<2 U	<2 UJ	<2 UJ	<2 U	<2 U
1,2,4-Trimethylbenzene	**1,600 J**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,3,5-Trimethylbenzene (Mesitylene)	**470 J**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
2-Hexanone (MBK)	<120 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U
Acetone	<120 U	40	34 J	**55 J**	46 J	22 J
Benzene	**22**	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Bromomethane	<62 U	**7.5 J**	3.7 J	**7.5 J**	**6.8 J**	4.7 J
Ethylbenzene	**950**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Isopropylbenzene (Cumene)	**93**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
M,P-Xylene	**4,000**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Methyl Ethyl Ketone (2-Butanone)	<120 U	18	4.2 J	4.2 J	23	20
Naphthalene	**440 J**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
n-Propylbenzene	**150**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	**700**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether	<62 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Toluene	**300**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Total Xylenes	**4,700**	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Total BTEX	5,972	ND	ND	ND	ND	ND
Total VOCs	9,857	70.4	43.7	68.9	75.8	47.62
General Chemistry						
Sulfate (As SO4)	NA	**1,600,000**	**780,000**	**800,000**	**710,000**	**720,000**



LEGEND:

APPROXIMATE SITE BOUNDARY

MW21 APPROXIMATE OFF-SITE PERFORMANCE MONITORING WELL LOCATION

Analyte	NYSDEC SGVs
VOCs	
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene (Mesitylene)	5
2-Hexanone (MBK)	50
Acetone	50
Benzene	1
Bromomethane	5
Ethylbenzene	5
Isopropylbenzene (Cumene)	5
M,P-Xylene	5
Methyl Ethyl Ketone (2-Butanone)	50
Naphthalene	10
n-Propylbenzene	5
o-Xylene (1,2-Dimethylbenzene)	5
Tert-Butyl Methyl Ether	10
Toluene	5
Total Xylenes	5
Total BTEX	NS
Total VOCs	NS
General Chemistry	
Sulfate (As SO4)	250,000

NOTES:

1. BASE MAP TAKEN FROM THE TOPOGRAPHIC, BOUNDARY AND UTILITY SURVEY DRAWING TITLED 190043701-V-EX0101, PREPARED BY LANGAN, DATED APRIL 16, 2018 AND THE JULY 6, 2021 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) EASEMENT SURVEY PREPARED BY LANGAN.
2. ELEVATIONS ON THIS FIGURE ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
3. MONITORING WELL LOCATIONS WERE MEASURED OFF OF SURVEYED SITE FEATURES AND ARE APPROXIMATE.
4. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NYSDEC TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES, AND REGULATIONS PART 703.5 AND THE NYSDEC TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER (COLLECTIVELY REFERENCED AS NYSDEC SGVs).
5. ANALYTICAL RESULTS FOR THE POST-INJECTION AND FIRST QUARTERLY PERFORMANCE MONITORING EVENT ARE PROVIDED IN THE NYSDEC-APPROVED DECEMBER 2021 FINAL ENGINEERING REPORT, PREPARED BY LANGAN, AND TABLE 2 OF THIS GROUNDWATER MONITORING REPORT.
6. COMPOUNDS THAT EXCEEDED THE NYSDEC SGVs IN AT LEAST ONE GROUNDWATER SAMPLE ARE SHOWN.
7. CONCENTRATIONS DETECTED ABOVE THE NYSDEC SGVs ARE SHADED AND BOLDED.
8. VOC = VOLATILE ORGANIC COMPOUND
9. U = THE ANALYTE WAS ANALYZED FOR, BUT WAS NOT DETECTED AT A LEVEL GREATER THAN OR EQUAL TO THE LEVEL OF THE REPORTING LIMIT (RL) OR THE SAMPLE CONCENTRATION FOR RESULTS IMPACTED BY BLANK CONTAMINATION.
10. UJ = THE ANALYTE WAS NOT DETECTED AT A LEVEL GREATER THAN OR EQUAL TO THE RL; HOWEVER, THE REPORTED RL IS APPROXIMATE AND MAY BE INACCURATE OR IMPRECISE.
11. J = THE ANALYTE WAS POSITIVELY IDENTIFIED AND THE ASSOCIATED NUMERICAL VALUE IS THE APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE.
12. µg/L = MICROGRAM PER LITER
13. NA = NOT ANALYZED
14. NS = NO STANDARD
15. ND = NOT DETECTED

15 0 7.5 15
SCALE IN FEET

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

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Project: 561 GREENWICH STREET
BLOCK No. 598, LOT No. 42

Figure Title: GROUNDWATER SAMPLE ANALYTICAL RESULTS MAP

Project No. 190043702
Date 11/16/2022
Drawn By LPG
Checked By ERA

Figure No. 2
Sheet 2 of 2

LANGAN
PROJECT NO. 190043702

Filename: \\langan.com\data\WPW\data7\190043701\Project Data\CAD\01\Sheet Files\Environmental\BCP - Quarterly Groundwater Monitoring Reports\Figure 2 - Groundwater Sample Analytical Map_20221102.dwg Date: 11/16/2022 Time: 13:52 User: lgrove Style Table: Langan.stb Layout: ANSIB-BL

TABLES

Table 1
Quarterly Groundwater Monitoring Report
Baseline, Post-Injection, and Quarterly Performance Groundwater Sample Analytical Results

561 Greenwich Street
New York, New York
NYSDEC BCP Site No.: C231129
Langan Project No.: 190043702

Analyte	CAS Number	NYSDEC SGVs	Sampling Event	Baseline	Post-Injection	Post-Injection	Q1	Q2	Q3	Q4	Baseline	Post-Injection	Post-Injection	Q1	Q1	Q2	Q2	Q3	Q4
			Location	MW21	MW21	MW21	MW21	MW21	MW21	MW21	MW22	MW22	MW22	MW22	MW22	MW22	MW22	MW22	MW22
			Sample Name	MW21_110618	MW21_061920	MW21_04202021	MW21_091621	MW21_012822	MW21_041522	MW21_072722	MW22_110718	MW22_061920	MW22_04202021	MW22_091621	GWDUP01_091621	MW22_012822	GWDUP01_012822	MW22_041522	MW22_072622
			Sample Date	11/06/2018	06/19/2020	04/20/2021	09/16/2021	01/28/2022	04/15/2022	07/27/2022	11/07/2018	06/19/2020	04/20/2021	09/16/2021	09/16/2021	01/28/2022	01/28/2022	04/15/2022	07/26/2022
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,1-Trichloroethane	71-55-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<50 U	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-Trichloroethane	79-00-5	1	ug/l	<15 U	<1.5 U	<1.5 U	<1.5 U	<150 UJ	<30 U	<15 U	<150 U	<75 U	<1.5 U	<1.5 U	<1.5 U	<1.5 UJ	<1.5 UJ	<1.5 U	<1.5 U
1,1-Dichloroethane	75-34-3	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1-Dichloroethene	75-35-4	5	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<50 U	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloropropene	563-58-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 UJ	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	**5**	ug/l	**57**	**11**	**5.4**	<2 U	<200 U	**57**	**7.2 J**	**68 J**	**32 J**	**120**	<2 U	<2 U	<2 U	0.58 J	<2 U	<2 U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4-Trimethylbenzene	95-63-6	**5**	ug/l	**1,100**	**58**	**28**	<2.5 U	**490**	**1,100**	**140**	**1,400 J**	**900**	**560**	<2.5 U	<2.5 U	<2.5 U	0.89 J	<2.5 U	<2.5 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	ug/l	<25 U	<2.5 U	<2.5 UJ	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	ug/l	<20 U	<2 U	<2 U	<2 U	<200 UJ	<40 U	<20 U	<200 U	<100 U	<2 U	<2 U	<2 U	<2 UJ	<2 UJ	<2 U	<2 U
1,2-Dichlorobenzene	95-50-1	3	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dichloroethane	107-06-2	0.6	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<50 U	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichloropropane	78-87-5	1	ug/l	<10 U	<1 U	<1 U	<1 U	<100 U	<20 U	<10 U	<100 U	<50 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**5**	ug/l	**180**	**14**	**11**	<2.5 U	**80 J**	**310**	**37**	**390 J**	**250**	**280**	<2.5 U	<2.5 U	<2.5 U	1.4 J	<2.5 U	<2.5 U
1,3-Dichlorobenzene	541-73-1	3	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,3-Dichloropropane	142-28-9	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Dichlorobenzene	106-46-7	3	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Diethyl Benzene	105-05-5	NS	ug/l	80	<2 U	10	<2 U	<200 U	140	14 J	190 J	96 J	350	<2 U	<2 U	<2 U	2.6	<2 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	ug/l	<2,500 U	<250 U	<250 UJ	<250 U	<25,000 UJ	<5,000 U	<2,500 U	<25,000 U	<12,000 U	<250 UJ	<250 U	<250 U	<250 UJ	<250 UJ	<250 U	<250 U
2,2-Dichloropropane	594-20-7	5	ug/l	<25 U	<2.5 U	<2.5 UJ	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Chlorotoluene	95-49-8	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Hexanone (MBK)	591-78-6	**50**	ug/l	<50 U	<5 U	<5 U	1.6 J	<500 U	<100 U	**200**	<500 U	<250 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
4-Chlorotoluene	106-43-4	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-Ethyltoluene	622-96-8	NS	ug/l	240	23	14	<2 U	290	960	87	1,000	650	530	<2 U	<2 U	<2 U	0.8 J	<2 U	<2 U
Acetone	67-64-1	**50**	ug/l	<50 U	**130**	**71 J**	11	**160 J**	**100**	**170**	**150 J**	**510**	**110 J**	3 J	12 J	42	**54**	**190**	24
Acrylonitrile	107-13-1	5	ug/l	<50 U	<5 U	<5 UJ	<5 U	<500 U	<100 U	<50 U	<500 U	<250 U	<5 UJ	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Benzene	71-43-2	**1**	ug/l	**140**	**26**	**3.2**	<0.5 U	**1,400**	**340**	**440**	**2,200**	**3,000**	**58**	**2.1**	**2.8**	**1.5 J**	**4.6 J**	<0.5 U	**1.5**
Bromobenzene	108-86-1	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromochloromethane	74-97-5	5	ug/l	<25 U	<2.5 U	<2.5 UJ	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromodichloromethane	75-27-4	50	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<50 UJ	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Bromoform	75-25-2	50	ug/l	<20 U	<2 U	<2 UJ	<2 U	<200 U	<40 U	<20 U	<200 U	<100 U	<2 UJ	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Bromomethane	74-83-9	**5**	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 UJ	<50 U	<25 U	<250 U	<120 UJ	1.2 J	1.4 J	0.83 J	4.4 J	2.3 J	<2.5 U	0.85 J
Carbon Disulfide	75-15-0	60	ug/l	<50 U	2.1 J	<5 U	<5 U	<500 U	<100 U	<50 U	<500 U	<250 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Carbon Tetrachloride	56-23-5	5	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<50 U	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Chlorobenzene	108-90-7	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	3.5	2.1 J	<2.5 U	<2.5 U
Chloroethane	75-00-3	5	ug/l	<25 U	<2.5 U	<2.5 UJ	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 UJ	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroform	67-66-3	7	ug/l	<25 U	<2.5 U	2.9	0.86 J	<250 U	<50 U	<25 U	<250 U	<120 U	3.3	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloromethane	74-87-3	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	2.2 J	1.7 J	0.88 J	0.9 J	<2.5 U	<2.5 U
Cis-1,2-Dichloroethene	156-59-2	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<50 UJ	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Cymene	99-87-6	**5**	ug/l	<25 U	0.97 J	0.71 J	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	**8.4**	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Dibromochloromethane	124-48-1	50	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<50 U	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dibromomethane	74-95-3	5	ug/l	<50 U	<5 U	<5 U	<5 U	<500 U	<100 U	<50 U	<500 U	<250 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Dichlorodifluoromethane	75-71-8	5	ug/l	<50 U	<5 U	<5 UJ	<5 U	<500 U	<100 U	<50 U	<500 U	<250 U	<5 UJ	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 UJ	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Ethylbenzene	100-41-4	**5**	ug/l	**690**	**39**	**8.8**	<2.5 U	**980**	**400**	**55**	**920**	**780**	**68**	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Hexachlorobutadiene	87-68-3	0.5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Isopropylbenzene (Cumene)	98-82-8	**5**	ug/l	**38**	2.4 J	1.5 J	<2.5 U	<250 U	**56**	<25 U	<250 U	<120 U	**16**	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
M,P-Xylene	179601-23-1	**5**	ug/l	**1,200**	**72**	**27**	<2.5 U	**4,800**	**2,200**	**720**	**4,000**	**3,100**	**350**	<2.5 U	<2.5 U	<2.5 U	0.76 J	<2.5 U	0.8 J
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**50**	ug/l	<50 U	<5 U	<5 UJ	3.2 J	<500 U	<100 U	**52**	<500 U	<250 U	<5 UJ	<5 U	5.8	4.7 J	14 J	11	6.1
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/l	<50 U	<5 U	<5 UJ	<5 U	<500 U	<100 U	11 J	<500 U	<250 U	<5 UJ	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Methylene Chloride	75-09-2	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	0.84 J	<2.5 U	1.6 J	1.6 J	<2.5 U	<2.5 U
Naphthalene	91-20-3	**10**	ug/l	**310**	**32**	7.2	<2.5 U	<250 U	**130**	**46**	**360 J**	**240 J**	**83**	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Butylbenzene	104-51-8	**5**	ug/l	**8.8 J**	2.4 J	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	**12**	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Propylbenzene	103-65-1	**5**	ug/l	**96**	**6.3**	2.8	<2.5 U	<250 U	**140**	<25 U	**140 J**	**86 J**	**36**	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	**5**	ug/l	**69**	**17**	**10**	<2.5 U	**2,900**	**1,000**	**500**	**2,200**	**1,900**	**230**	<2.5 U	<2.5 U	<2.5 U	0.8 J	<2.5 U	<2.5 U
Sec-Butylbenzene	135-98-8	**5**	ug/l	<25 U	0.97 J	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	**9.9**	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Styrene	100-42-5	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
T-Butylbenzene	98-06-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	0.87 J	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether	1634-04-4	**10**	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	**14 J**	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tetrachloroethene (PCE)	127-18-4	5	ug/l	<5 U	<0.5 U	0.18 J	<0.5 U	<50 U	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	1.5 J	0.33 J	<0.5 U	<0.5 U
Toluene	108-88-3	**5**	ug/l	**89**	**16**	**6.9**	<2.5 U	**8,700**	**1,900**	**1,000**	**8,000**	**6,100**	**220**	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	1.5 J
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total Xylenes	1330-20-7	**5**	ug/l	**1,300**	**89**	**37**	<2.5 U	**7,700**	**3,200**	**1,200**	**6,200**	**5,000**	**580**	<2.5 U	<2.5 U	<2.5 U	1.6 J	<2.5 U	0.8 J
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	0.4	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<50 U	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,2-Dichloroethene	156-60-5	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<50 U	<10 U	<5 U	<50 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,4-Dichloro-2-Butene	110-57-6	5	ug/l	<25 U	<2.5 U	<2.5 UJ	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 UJ	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	<5 U	<0.5 U	<0.5 UJ	<0.5 U	<50 U	<10 U	<5 U	<50 U	<25 U	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichlorofluoromethane	75-69-4	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<250 U	<50 U	<25 U	<250 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Vinyl Acetate	108-05-4	NS	ug/l	<50 U	<5 U	<5 U	<5 U	<500 U	<100 U	<50 U	<500 U	<250 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Vinyl Chloride	75-01-4	2	ug/l	<10 U	<1 U	<1 U	<1 U	<100 U	<20 U	<10 U	<100 U	<50 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Total BTEX	BTEX	NS	ug/l	2,219	170	55.9	ND	18,780	5,840	2,695	17,320	14,880	926	2.1	2.8	1.5	6.2	ND	3.8
Total VOCs	TOTAL VOCS	NS	ug/l	4,328.8	453.14	210.59	16.66	19,800	8,833	3,473.2	21,018	17,644	3,046.67	9.54	23.13	60.08	87.7	201	34.75
General Chemistry																			
Sulfate (As SO4)	14808-79-8	**250,000**	ug/l	NA	NA	NA	96,000	140,000	85,000	200,000	NA	**31,000,000**	NA	**2,000,000**	**1,800,000**	**590,000**	**680,000**	160,000	**300,000**

Table 1
Quarterly Groundwater Monitoring Report
Baseline, Post-Injection, and Quarterly Performance Groundwater Sample Analytical Results

561 Greenwich Street
New York, New York
NYSDEC BCP Site No.: C231129
Langan Project No.: 190043702

Analyte	CAS Number	NYSDEC SGVs	Sampling Event	Baseline	Post-Injection	Post-Injection	Q1	Q2	Q3	Q3	Q4	Q4
			Location	MW23	MW23	MW23	MW23	MW23	MW23	MW23	MW23	MW23
			Sample Name	MW23_110718	MW23_061920	MW23_04202021	MW23_091621	MW23_012822	MW23_041522	GWDUP01_041522	MW23_072622	DUP01_072622
			Sample Date	11/07/2018	06/19/2020	04/20/2021	09/16/2021	01/28/2022	04/15/2022	04/15/2022	07/26/2022	07/26/2022
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,1,1-Trichloroethane	71-55-6	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	<12 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
1,1,2-Trichloroethane	79-00-5	1	ug/l	<38 U	<75 U	<1.5 U	<1.5 U	<1.5 UJ	<1.5 UJ	<1.5 UJ	<1.5 U	<1.5 U
1,1-Dichloroethane	75-34-3	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,1-Dichloroethene	75-35-4	5	ug/l	<12 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
1,1-Dichloropropene	563-58-6	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	**5**	ug/l	**52 J**	<100 U	**12**	<2 U	<2 U	<2 UJ	<2 UJ	<2 U	<2 U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,2,4-Trimethylbenzene	95-63-6	**5**	ug/l	**1,600 J**	**94 J**	**49**	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	ug/l	<62 U	<120 U	<2.5 UJ	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	ug/l	<50 U	<100 U	<2 U	<2 U	<2 UJ	<2 UJ	<2 UJ	<2 U	<2 U
1,2-Dichlorobenzene	95-50-1	3	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,2-Dichloroethane	107-06-2	0.6	ug/l	<12 U	<25 U	0.22 J	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
1,2-Dichloropropane	78-87-5	1	ug/l	<25 U	<50 U	<1 U	<1 U	<1 U	<1 UJ	<1 UJ	<1 U	<1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**5**	ug/l	**470 J**	<120 U	**22**	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,3-Dichlorobenzene	541-73-1	3	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,3-Dichloropropane	142-28-9	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,4-Dichlorobenzene	106-46-7	3	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
1,4-Diethyl Benzene	105-05-5	NS	ug/l	150	<100 U	31	<2 U	<2 U	<2 UJ	<2 UJ	<2 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	ug/l	<6,200 U	<12,000 U	<250 UJ	<250 U	<250 UJ	<250 UJ	<250 UJ	<250 U	<250 U
2,2-Dichloropropane	594-20-7	5	ug/l	<62 U	<120 U	<2.5 UJ	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
2-Chlorotoluene	95-49-8	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
2-Hexanone (MBK)	591-78-6	**50**	ug/l	<120 U	<250 U	<5 U	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U
4-Chlorotoluene	106-43-4	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
4-Ethyltoluene	622-96-8	NS	ug/l	930	<100 U	37	<2 U	<2 U	<2 UJ	<2 UJ	<2 U	<2 U
Acetone	67-64-1	**50**	ug/l	<120 U	**190 J**	35 J	3.5 J	40	34 J	**55 J**	46 J	22 J
Acrylonitrile	107-13-1	5	ug/l	<120 U	<250 U	<5 UJ	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U
Benzene	71-43-2	**1**	ug/l	**22**	<25 U	**15**	0.16 J	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Bromobenzene	108-86-1	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Bromochloromethane	74-97-5	5	ug/l	<62 U	<120 U	<2.5 UJ	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Bromodichloromethane	75-27-4	50	ug/l	<12 U	<25 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Bromoform	75-25-2	50	ug/l	<50 U	<100 U	<2 UJ	<2 U	<2 U	<2 UJ	<2 UJ	<2 U	<2 U
Bromomethane	74-83-9	**5**	ug/l	<62 U	<120 U	2.5	2.7	**7.5 J**	3.7 J	**7.6 J**	**6.8 J**	4.7 J
Carbon Disulfide	75-15-0	60	ug/l	<120 U	<250 U	<5 U	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U
Carbon Tetrachloride	56-23-5	5	ug/l	<12 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Chlorobenzene	108-90-7	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Chloroethane	75-00-3	5	ug/l	<62 U	<120 U	<2.5 UJ	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 UJ	<2.5 U
Chloroform	67-66-3	7	ug/l	<62 U	<120 U	1.2 J	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Chloromethane	74-87-3	5	ug/l	<62 U	<120 U	<2.5 U	4.1 J	2.7	1.8 J	2.1 J	<2.5 U	0.92 J
Cis-1,2-Dichloroethene	156-59-2	5	ug/l	<62 U	<120 U	0.73 J	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	<12 U	<25 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Cymene	99-87-6	**5**	ug/l	<62 U	<120 U	1.3 J	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Dibromochloromethane	124-48-1	50	ug/l	<12 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Dibromomethane	74-95-3	5	ug/l	<120 U	<250 U	<5 U	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U
Dichlorodifluoromethane	75-71-8	5	ug/l	<120 U	<250 U	<5 UJ	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Ethylbenzene	100-41-4	**5**	ug/l	**950**	<120 U	**18**	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Hexachlorobutadiene	87-68-3	0.5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Isopropylbenzene (Cumene)	98-82-8	**5**	ug/l	**93**	<120 U	2.1 J	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
M,P-Xylene	179601-23-1	**5**	ug/l	**4,000**	**50 J**	**83**	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**50**	ug/l	<120 U	<250 U	<5 UJ	<5 U	18	4.2 J	4.2 J	23	20
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/l	<120 U	<250 U	<5 UJ	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U
Methylene Chloride	75-09-2	5	ug/l	<62 U	<120 U	<2.5 U	0.76 J	2.2 J	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Naphthalene	91-20-3	**10**	ug/l	**440 J**	**47 J**	**13**	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
n-Butylbenzene	104-51-8	**5**	ug/l	<62 U	<120 U	1.2 J	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
n-Propylbenzene	103-65-1	**5**	ug/l	**150**	<120 U	3.7	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	**5**	ug/l	**700**	<120 U	**48**	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Sec-Butylbenzene	135-98-8	**5**	ug/l	<62 U	<120 U	0.83 J	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Styrene	100-42-5	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
T-Butylbenzene	98-06-6	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether	1634-04-4	**10**	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Tetrachloroethene (PCE)	127-18-4	5	ug/l	<12 U	<25 U	2.3	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Toluene	108-88-3	**5**	ug/l	**300**	<120 U	**54**	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	ug/l	<62 U	<120 U	0.73 J	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Total Xylenes	1330-20-7	**5**	ug/l	**4,700**	**50 J**	**130**	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	0.4	ug/l	<12 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Trans-1,2-Dichloroethene	156-60-5	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	<12 U	<25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Trans-1,4-Dichloro-2-Butene	110-57-6	5	ug/l	<62 U	<120 U	<2.5 UJ	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	<12 U	<25 U	**9.3 J**	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U
Trichlorofluoromethane	75-69-4	5	ug/l	<62 U	<120 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Vinyl Acetate	108-05-4	NS	ug/l	<120 U	<250 U	<5 U	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U
Vinyl Chloride	75-01-4	2	ug/l	<25 U	<50 U	<1 U	<1 U	<1 U	<1 UJ	<1 UJ	<1 U	<1 U
Total BTEX	BTEX	NS	ug/l	5,972	50	217	0.16	ND	ND	ND	ND	ND
Total VOCs	TOTAL VOCS	NS	ug/l	9,857	381	442.11	11.22	70.4	43.7	68.9	75.8	47.62
General Chemistry												
Sulfate (As SO4)	14808-79-8	**250,000**	ug/l	NA	NA	NA	**1,500,000**	**1,600,000**	**780,000**	**800,000**	**710,000**	**720,000**

Table 1
Quarterly Groundwater Monitoring Report
Baseline, Post-Injection, and Quarterly Performance GW Sample Analytical Results

561 Greenwich Street
New York, New York
NYSDEC BCP Site No.: C231129
Langan Project No.: 190043702

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").

The Total VOCs calculation consists of all detected Volatile Organic Compounds for a given sample. This calculation includes Total Xylenes, and excludes M,P-Xylene and o-Xylene (1,2-Dimethylbenzene).

Qualifiers:

J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Table 2
Quarterly Groundwater Monitoring Report
Q2 - Q4 Quality Assurance/Quality Control Sample Analytical Results

561 Greenwich Street
New York, New York
NYSDEC BCP Site No.: C231129
Langan Project No.: 190043702

Analyte	CAS Number	Sampling Event	Q2	Q2	Q3	Q3	Q4	Q4
		Sample Type	FB	TB	FB	TB	FB	TB
		Sample Name	GWFB01_012822	GWTB01_012822	GWFB01_041522	GWTB01_041522	FB01_072622	TB01_072622
		Sample Date	01/28/2022	01/28/2022	04/15/2022	04/15/2022	07/26/2022	07/26/2022
		Unit	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,1-Trichloroethane	71-55-6	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-Trichloroethane	79-00-5	ug/l	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U
1,1-Dichloroethane	75-34-3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1-Dichloroethene	75-35-4	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-Dichloropropene	563-58-6	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichlorobenzene	87-61-6	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichloropropane	96-18-4	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	ug/l	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4-Trimethylbenzene	95-63-6	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/l	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
1,2-Dichlorobenzene	95-50-1	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dichloroethane	107-06-2	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-Dichloropropane	78-87-5	ug/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,3-Dichlorobenzene	541-73-1	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,3-Dichloropropane	142-28-9	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Dichlorobenzene	106-46-7	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Diethyl Benzene	105-05-5	ug/l	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/l	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U
2,2-Dichloropropane	594-20-7	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Chlorotoluene	95-49-8	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Hexanone (MBK)	591-78-6	ug/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
4-Chlorotoluene	106-43-4	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-Ethyltoluene	622-96-8	ug/l	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
Acetone	67-64-1	ug/l	<5.0 U	<5.0 U	<5.0 U	2.1 J	<5.0 U	<5.0 U
Acrylonitrile	107-13-1	ug/l	<5.0 U	<5.0 U	7.2	<5.0 U	<5.0 U	<5.0 U
Benzene	71-43-2	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Bromobenzene	108-86-1	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromochloromethane	74-97-5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromodichloromethane	75-27-4	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Bromoform	75-25-2	ug/l	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
Bromomethane	74-83-9	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Carbon Disulfide	75-15-0	ug/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Carbon Tetrachloride	56-23-5	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Chlorobenzene	108-90-7	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroethane	75-00-3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroform	67-66-3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloromethane	74-87-3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,2-Dichloroethene	156-59-2	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,3-Dichloropropene	10061-01-5	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Cymene	99-87-6	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Dibromochloromethane	124-48-1	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Dibromomethane	74-95-3	ug/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Dichlorodifluoromethane	75-71-8	ug/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Diethyl Ether (Ethyl Ether)	60-29-7	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Ethylbenzene	100-41-4	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Hexachlorobutadiene	87-68-3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Isopropylbenzene (Cumene)	98-82-8	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
M,P-Xylene	179601-23-1	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	ug/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Methylene Chloride	75-09-2	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Naphthalene	91-20-3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Butylbenzene	104-51-8	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Propylbenzene	103-65-1	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Sec-Butylbenzene	135-98-8	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Styrene	100-42-5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
T-Butylbenzene	98-06-6	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether	1634-04-4	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tetrachloroethene (PCE)	127-18-4	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	108-88-3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	0.82 J	0.76 J
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total Xylenes	1330-20-7	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Trans-1,2-Dichloroethene	156-60-5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trans-1,3-Dichloropropene	10061-02-6	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Trans-1,4-Dichloro-2-Butene	110-57-6	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trichloroethene (TCE)	79-01-6	ug/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Trichlorofluoromethane	75-69-4	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Vinyl Acetate	108-05-4	ug/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Vinyl Chloride	75-01-4	ug/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
General Chemistry								
Sulfate (As SO4)	14808-79-8	ug/l	<10,000 U	NA	<10,000 U	NA	<10,000 U	NA

Table 2
Quarterly Groundwater Monitoring Report
Q2 - Q4 Quality Assurance/Quality Control Sample Analytical Results

561 Greenwich Street
New York, New York
NYSDEC BCP Site No.: C231129
Langan Project No.: 190043702

Notes:
FB - Field Blank
TB - Trip Blank
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Qualifiers:
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

ATTACHMENT 1

GROUNDWATER SAMPLING LOGS

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	561 Greenwich St.	**Well No:**	MW-21	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Snow, 30-34 °F		MW21_012822
Project Number:	190043702	**Well Depth:**	15.8	**Pine Number:**	21537	**Background PID (ppm):**	0.0	**Sample(s):**	MS/MSD
Site Location:	New York, NY	**Well Diameter:**	2-inch	**Pump Make and Model:**	Peri Solinst 410	**PID Beneath Inner Cap (ppm):**	37.5		
Sampling	Caroline Devin	**Well Screen**	15.8	**Pine Number:**	042483	**Pump Intake Depth:**	14.00	**Sample Date:**	1/28/2022
Personnel:		**Interval:**	5.8	**Tubing Diameter:**	3/8" ID x 5/8" OD	**Depth to Water Before Purge:**	6.93	**Sample Time:**	14:45

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
13:40	16.35	9.46	-17	1.02	154.0	1.98	6.93	-	1.25	Light brown color, petroleum-like odor	**N/A**
13:45	17.71	9.38	-36	1.02	144.0	1.91		0.05	1.50		**N/A**
13:50	18.90	9.34	-49	1.00	160.0	1.68		0.05	1.75		**N**
13:55	17.81	9.32	-46	1.01	170.0	6.22		0.02	1.85		**N**
14:00	17.75	9.36	-33	1.01	143.0	6.10		0.03	2.00		**N**
14:45	**Well purged dry and fully recharged before sampling. Samples collected before stabilization due to poor recharge rate.**										

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	561 Greenwich St.	**Well No:**	MW-22	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Snow, 30-34 °F		MW22_012822
Project Number:	190043702	**Well Depth:**	18.0	**Pine Number:**	21537	**Background PID (ppm):**	0.0	**Sample(s):**	GWDUP01_012822
Site Location:	New York, NY	**Well Diameter:**	2-inch	**Pump Make and Model:**	Peri Solinst 410	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling	Caroline Devin	**Well Screen**	18.0	**Pine Number:**	042483	**Pump Intake Depth:**	N/A	**Sample Date:**	1/28/2022
Personnel:		**Interval:**	6.0	**Tubing Diameter:**	3/8" ID x 5/8" OD	**Depth to Water Before Purge:**	N/A	**Sample Time:**	11:45

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
11:40	7.94	9.51	40	3.55	370.0		-		1.00	black, no odor	**N/A**
11:45	**Well purged dry. Insufficient recharge to continue purging. Samples collected from purged groundwater bucket**										

Notes:

1. Well depths and groundwater depths could not be measured due to the permanent well network sampling configuration.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	561 Greenwich St.	**Well No:**	MW-23	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Snow, 30-34 °F		MW23_012822
Project Number:	190043702	**Well Depth:**	17.0	**Pine Number:**	21537	**Background PID (ppm):**	0.0	**Sample(s):**	
Site Location:	New York, NY	**Well Diameter:**	2-inch	**Pump Make and Model:**	Peri Solinst 410	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling	Caroline Devin	**Well Screen**	17.0	**Pine Number:**	042483	**Pump Intake Depth:**	N/A	**Sample Date:**	1/28/2022
Personnel:		**Interval:**	7.0	**Tubing Diameter:**	3/8" ID x 5/8" OD	**Depth to Water Before Purge:**	N/A	**Sample Time:**	11:15

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
11:05	7.92	8.39	74	6.30	234.0	3.69	-		0.50	dark brown, black	**N/A**
11:10										no odor	**N/A**
11:15	**Well purged dry. Insufficient recharge to continue purging. Samples collected from purged groundwater bucket**										

Notes:

1. Well depths and groundwater depths could not be measured due to the permanent well network sampling configuration.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	551 Greenwich	**Well No:**	MW-21	**Water Quality Device Model:**	Horiba U52	**Weather:**	55°F	**Sample(s):**	MW21_041522
Project Number:	190043702	**Well Depth:**	14.43	**Pine Number:**	N/A	**Background PID (ppm):**	0.0		
Site Location:	New York, NY	**Well Diameter:**	2-inch	**Pump Make and Model:**	Solinst 410	**PID Beneath Inner Cap (ppm):**	6.3		
Sampling	Daniel Arnstein	**Well Screen**	15.8	**Pine Number:**	N/A	**Pump Intake Depth:**	13.00	**Sample Date:**	4/15/2022
Personnel:	Jack Millman	**Interval:**	5.8	**Tubing Diameter:**	3/8" ID x 5/8" OD	**Depth to Water Before Purge:**	6.07	**Sample Time:**	16:20

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
13:15									1.8	Light brown, petroleum-like odor	**N/A**
13:20	11.17	9.43	107	3.110	30.5	5.48		0.14	2.5		**N/A**
13:25	11.65	9.08	82	3.120	50.4	7.04		0.16	3.3		**N**
13:30	13.18	8.87	83	3.100	54.2	9.56	11.17	0.66			**N**
13:35	11.91	8.79	85	3.130	33.0	8.69	12.66	0.76	3.8		**N**
13:40	12.46	8.72	76	3.090	70.7	8.74	12.60	0.06	4.1		**N**
13:45	13.20	8.66	81	3.090	37.7	9.98	12.55	0.04	4.3		**N**
13:50	13.23	8.65	83	3.080	21.6	9.74	12.60	0.05	4.55		**N**
13:55	13.03	8.65	84	3.080	14.9	9.87	12.61	0.05	4.8		**N**
14:00	13.15	8.66	84	3.070	13.3	10.21		0.06	5.1		**N**
14:05	No recharge										
16:20	**Monitoring well sampled with dedicated polyethylene bailer due to equipment power supply loss.**										

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	551 Greenwich	**Well No:**	MW-22	**Water Quality Device Model:**	Horiba U52	**Weather:**	55°F	**Sample(s):**	MW22_041522
Project Number:	190043702	**Well Depth:**	N/A	**Pine Number:**	N/A	**Background PID (ppm):**	0.0		
Site Location:	New York, NY	**Well Diameter:**	2-inch	**Pump Make and Model:**	Solinst 410	**PID Beneath Inner Cap (ppm):**	0.1		
Sampling	Daniel Arnstein	**Well Screen**	18.0	**Pine Number:**	N/A	**Pump Intake Depth:**	N/A	**Sample Date:**	4/15/2022
Personnel:	Jack Millman	**Interval:**	6.0	**Tubing Diameter:**	3/8" ID x 5/8" OD	**Depth to Water Before Purge:**	N/A	**Sample Time:**	16:15

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
4:20	N/A	8.62	110	2.560	372.0	10.99	N/A	N/A	1	No recharge	**N/A**
16:10	12.89	8.61	125	2.370	513.0	2.92	N/A	N/A	2		**N**
16:15	**Well purged dry. Insufficient recharge to continue purging. Samples collected directly from pump discharge line.**										

Notes:

1. Well depths and groundwater depths could not be measured due to the permanent well network sampling configuration.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	551 Greenwich	**Well No:**	MW-23	**Water Quality Device Model:**	Horiba U52	**Weather:**	55°F	**Sample(s):**	MW23_041522
Project Number:	190043702	**Well Depth:**	N/A	**Pine Number:**	N/A	**Background PID (ppm):**	0.0		GWDUP_041522
Site Location:	New York, NY	**Well Diameter:**	2-inch	**Pump Make and Model:**	Solinst 410	**PID Beneath Inner Cap (ppm):**	0.1		
Sampling	Daniel Arnstein	**Well Screen**	17.0	**Pine Number:**	N/A	**Pump Intake Depth:**	N/A	**Sample Date:**	4/15/2022
Personnel:	Jack Millman	**Interval:**	7.0	**Tubing Diameter:**	3/8" ID x 5/8" OD	**Depth to Water Before Purge:**	N/A	**Sample Time:**	10:30

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
9:40											**N/A**
9:45	15.06	9.68	48	6.040	744.0	8.95		0.23	1.15	Black	**N/A**
9:50	15.45	9.80	47	6.050	774.0	9.52		0.01	1.2		**N**
10:00	15.80	9.81	52	9.050	770.0	9.64		0.02	1.3		**N**
10:10	15.93	9.79	55	6.050	755.0	9.69		0.02	1.4		**N**
10:15	16.03	9.76	57	6.060	750.0	9.79		0.02	1.5		**N**
10:20	16.10	9.75	59	6.090	755.0	10.09			1.55		**Y**
10:25	16.13	9.74	60	6.090	759.0	10.14					**Y**

Notes:

1. Well depths and groundwater depths could not be measured due to the permanent well network sampling configuration.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	561 Greenwich St.	**Well No:**	MW-21	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Clear, 70°F	**Sample(s):**	MW21_072722
Project Number:	190043702	**Well Depth:**	14.6	**Pine Number:**	51666	**Background PID (ppm):**	0.0		MS/MSD
Site Location:	New York, NY	**Well Diameter:**	2-inch	**Pump Make and Model:**	Peri Solinst 410	**PID Beneath Inner Cap (ppm):**	1.2		
Sampling	Liz McConnell	**Well Screen**	15.8	**Pine Number:**	51859	**Pump Intake Depth:**	10.0	**Sample Date:**	7/27/2022
Personnel:		**Interval:**	5.8	**Tubing Diameter:**	3/8" ID x 5/8" OD	**Depth to Water Before Purge:**	8.4	**Sample Time:**	6:10

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
6:00	20.85	5.44	163	2.290	67.6	6.01	8.40	N/A	0.45		**N/A**
6:10	**Samples collected before stabilizing due to poor recharge rate. Samples collected directly from pump discharge line.**										

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	561 Greenwich St.	**Well No:**	MW-22	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Clear, 70°F	**Sample(s):**	MW22_072622
Project Number:	190043702	**Well Depth:**	18.0	**Pine Number:**	51666	**Background PID (ppm):**	0.0		
Site Location:	New York, NY	**Well Diameter:**	2-inch	**Pump Make and Model:**	Peri Solinst 410	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling	Liz McConnell	**Well Screen**	18.0	**Pine Number:**	51859	**Pump Intake Depth:**	N/A	**Sample Date:**	7/26/2022
Personnel:		**Interval:**	6.0	**Tubing Diameter:**	3/8" ID x 5/8" OD	**Depth to Water Before Purge:**	N/A	**Sample Time:**	12:15

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
12:00	25.11	6.75	207	1.610	405.0	9.37	N/A	N/A	0.53		**N/A**
12:15	**Well purged dry. Insufficient recharge to continue purging. Samples collected from purged groundwater bucket**										

Notes:

1. Well depths and groundwater depths could not be measured due to the permanent well network sampling configuration.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	561 Greenwich St.	**Well No:**	MW-23	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Clear, 70°F	**Sample(s):**	MW23_072622
Project Number:	190043702	**Well Depth:**	17.0	**Pine Number:**	51666	**Background PID (ppm):**	0.0		DUP01_072622
Site Location:	New York, NY	**Well Diameter:**	2-inch	**Pump Make and Model:**	Peri Solinst 410	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling	Liz McConnell	**Well Screen**	17.0	**Pine Number:**	51859	**Pump Intake Depth:**	N/A	**Sample Date:**	7/26/2022
Personnel:		**Interval:**	7.0	**Tubing Diameter:**	3/8" ID x 5/8" OD	**Depth to Water Before Purge:**	N/A	**Sample Time:**	12:10

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
12:05	21.70	8.17	189	4.720	113.0	5.28	N/A	N/A	0.76		**N/A**
12:10	**Well purged dry. Insufficient recharge to continue purging. Samples collected from purged groundwater bucket**										

Notes:

1. Well depths and groundwater depths could not be measured due to the permanent well network sampling configuration.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

ATTACHMENT 2

DATA USABILITY SUMMARY REPORT

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Technical Memorandum

989 Lenox Drive Lawrenceville, NJ 08648 T: 609.282.8000
Mailing Address: 989 Lenox Drive Lawrenceville, NJ 08648

To: Elizabeth Adkins, Langan Project Engineer

From: Joe Conboy, Langan Senior Staff Chemist

Date: August 8, 2022

Re: Data Usability Summary Report
For 561 Greenwich Street
January, April, and July 2022 Groundwater Samples
Langan Project No.: 190043702

This memorandum presents the findings of an analytical data validation from the analysis of groundwater samples collected in January, April, and July 2022 by Langan Engineering and Environmental Services at the 561 Greenwich Street site as part of the quarterly performance monitoring. The samples were analyzed by Alpha Analytical Laboratories, Inc. (a New York State Department of Health [NYSDOH] National Environmental Laboratory Accreditation Program [NELAP] registration # 11148) for volatile organic compounds (VOCs) and sulfate by the methods specified below.

- VOCs by SW-846 Method 8260C
- Sulfate by SW-846 Method 9038

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, level of data validation, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- United States Environmental Protection Agency (USEPA) Region II Standard Operating Procedures (SOPs) for Data Validation
- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020)
- USEPA Contract Laboratory Program "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- Published analytical methodologies.

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

Tier 1 data validation is based on completeness and compliance checks of sample-related quality control (QC) results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. All sample delivery groups (SDG) underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and our best professional judgment:

- **R –** The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.
- **J –** The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- **UJ –** The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.
- **U –** The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- **NJ –** The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned, these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified because of minor data-quality anomalies are usable, as qualified in Table 2 (attached).

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by SW-846 Method 8260C

L2219936

The case narrative noted sample MW23_041522 exhibited headspace in the sample container. The associated results are qualified as J/UJ because of potential indeterminate bias.

The case narrative noted sample GWDUP01_041522 exhibited headspace in the sample container. The associated results are qualified as J/UJ because of potential indeterminate bias.

L2239801

The LCS for batch WG1668615 exhibited a percent recovery above the UCL for bromomethane (140%). The associated results in samples MW22_072622 and DUP01_072622 are qualified as J because of potential high bias.

The LCS/LCSD for batch WG1668961 exhibited percent recoveries below the LCL for bromomethane (33%, 31%) and chloroethane (54%). The associated results in sample MW23_072622 are qualified as J or UJ because of potential low bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C

L2204920

The MS/MSD performed on sample MW21_012822 exhibited percent recoveries below the LCL for toluene (20%, 20%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

L2219936

The MS performed on sample MW21_041522 exhibited a percent recovery below the LCL for toluene (50%, 50%) and also exhibited a RPD above the control limit for 1,4-dioxane (22%). Organic results are not qualified on the basis of MS recoveries or RPDs alone. No qualification is necessary.

L2239801

The LCS/LCSD for batch WG1668961 exhibited a percent recovery above the UCL for vinyl acetate (140%, 150%). The associated results are non-detect. No qualification is necessary.

L2240044

The MB for batch WG1670009-5 exhibited a detection of acetone (1.6 ug/l). The associated results are >10X the contamination. No qualification is necessary.

The MS/MSD performed on sample MW21_072722 exhibited percent recoveries above the UCL for acrylonitrile (180%, 200%), 2-butanone (148%), chloroethane (140%) and also exhibited a RPD above the control limit for bromomethane (23%). Organic results are not qualified on the basis of MS/MSD recoveries or RPDs alone. No qualification is necessary.

FIELD DUPLICATE:

Three field duplicate and parent sample pairs were collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than ±X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 30% for groundwater. The following field duplicate and parent sample pairs were compared to the precision criteria:

- GWDUP01_012822 and MW22_012822
- GWDUP01_041522 and MW23_041522
- DUP01_072622 and MW23_072622

The field duplicate and parent sample (GWDUP01_012822 and MW22_012822) exhibited RPDs above the control limit for 2-butanone (99.5%), benzene (101.6%), and tetrachloroethene (127.9%). The associated results are qualified as J because of potential indeterminate bias.

The field duplicate and parent sample (GWDUP01_041522 AND MW23_041522) exhibited RPDs above the control limit for acetone (47.2%) and bromomethane (69%). The associated results are qualified as J because of potential indeterminate bias.

The field duplicate and parent sample (DUP01_072622 and MW23_072622) exhibited a RPD above the control limit for acetone (70.6%). The associated results are qualified as J because of potential indeterminate bias.

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met Analytical Services Protocol (ASP) Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:

Joe Conboy
Senior Staff Chemist

Data Usability Summary Report
For 561 Greenwich Street
January, April, and July 2022 Groundwater Samples
Table 1: Sample Summary

SDG	Lab Sample ID	Client Sample ID	Sample Date	Validation Level	Analytical Parameters
L2204920	L2204920-01	MW21_012822	1/28/2022	Tier 1	VOCs and Sulfate
L2204920	L2204920-02	MW22_012822	1/28/2022	Tier 1	VOCs and Sulfate
L2204920	L2204920-03	MW23_012822	1/28/2022	Tier 1	VOCs and Sulfate
L2204920	L2204920-04	GWDUP01_012822	1/28/2022	Tier 1	VOCs and Sulfate
L2204920	L2204920-05	GWFB01_012822	1/28/2022	Tier 1	VOCs and Sulfate
L2204920	L2204920-06	GWTB01_012822	1/28/2022	Tier 1	VOCs
L2219936	L2219936-01	MW21_041522	4/15/2022	Tier 1	VOCs and Sulfate
L2219936	L2219936-02	MW22_041522	4/15/2022	Tier 1	VOCs and Sulfate
L2219936	L2219936-03	MW23_041522	4/15/2022	Tier 1	VOCs and Sulfate
L2219936	L2219936-04	GWDUP01_041522	4/15/2022	Tier 1	VOCs and Sulfate
L2219936	L2219936-05	GWFB01_041522	4/15/2022	Tier 1	VOCs and Sulfate
L2219936	L2219936-06	GWTB01_041522	4/15/2022	Tier 1	VOCs
L2239801	L2239801-01	MW22_072622	7/26/2022	Tier 1	VOCs and Sulfate
L2239801	L2239801-02	MW23_072622	7/26/2022	Tier 1	VOCs and Sulfate
L2239801	L2239801-03	DUP01_072622	7/26/2022	Tier 1	VOCs and Sulfate
L2239801	L2239801-04	FB01_072622	7/26/2022	Tier 1	VOCs and Sulfate
L2239801	L2239801-05	TB01_072622	7/26/2022	Tier 1	VOCs
L2240044	L2240044-01	MW21_072722	7/27/2022	Tier 1	VOCs and Sulfate

Data Usability Summary Report
For 561 Greenwich Street
January, April, and July 2022 Groundwater Samples
Table 2: Validator-Applied Qualification

SDG	Client Sample ID	Analysis	CAS #	Analyte	Validator Qualifier
L2204920	MW22_012822	SW8260C	78-93-3	2-Butanone	J
L2204920	MW22_012822	SW8260C	71-43-2	Benzene	J
L2204920	MW22_012822	SW8260C	127-18-4	Tetrachloroethene	J
L2204920	GWDUP01_012822	SW8260C	78-93-3	2-Butanone	J
L2204920	GWDUP01_012822	SW8260C	71-43-2	Benzene	J
L2204920	GWDUP01_012822	SW8260C	127-18-4	Tetrachloroethene	J
L2219936	MW23_041522	SW8260C	630-20-6	1,1,1,2-Tetrachloroethane	UJ
L2219936	MW23_041522	SW8260C	71-55-6	1,1,1-Trichloroethane	UJ
L2219936	MW23_041522	SW8260C	79-34-5	1,1,2,2-Tetrachloroethane	UJ
L2219936	MW23_041522	SW8260C	79-00-5	1,1,2-Trichloroethane	UJ
L2219936	MW23_041522	SW8260C	75-34-3	1,1-Dichloroethane	UJ
L2219936	MW23_041522	SW8260C	75-35-4	1,1-Dichloroethene	UJ
L2219936	MW23_041522	SW8260C	563-58-6	1,1-Dichloropropene	UJ
L2219936	MW23_041522	SW8260C	87-61-6	1,2,3-Trichlorobenzene	UJ
L2219936	MW23_041522	SW8260C	96-18-4	1,2,3-Trichloropropane	UJ
L2219936	MW23_041522	SW8260C	95-93-2	1,2,4,5-Tetramethylbenzene	UJ
L2219936	MW23_041522	SW8260C	120-82-1	1,2,4-Trichlorobenzene	UJ
L2219936	MW23_041522	SW8260C	95-63-6	1,2,4-Trimethylbenzene	UJ
L2219936	MW23_041522	SW8260C	96-12-8	1,2-Dibromo-3-Chloropropane	UJ
L2219936	MW23_041522	SW8260C	106-93-4	1,2-Dibromoethane	UJ
L2219936	MW23_041522	SW8260C	95-50-1	1,2-Dichlorobenzene	UJ
L2219936	MW23_041522	SW8260C	107-06-2	1,2-Dichloroethane	UJ
L2219936	MW23_041522	SW8260C	540-59-0	Total Cis and Trans 1,2-Dichloroethene	UJ
L2219936	MW23_041522	SW8260C	78-87-5	1,2-Dichloropropane	UJ
L2219936	MW23_041522	SW8260C	108-67-8	1,3,5-Trimethylbenzene	UJ
L2219936	MW23_041522	SW8260C	541-73-1	1,3-Dichlorobenzene	UJ
L2219936	MW23_041522	SW8260C	142-28-9	1,3-Dichloropropane	UJ
L2219936	MW23_041522	SW8260C	542-75-6	Total Cis And Trans 1,3-Dichloropropene	UJ
L2219936	MW23_041522	SW8260C	106-46-7	1,4-Dichlorobenzene	UJ
L2219936	MW23_041522	SW8260C	123-91-1	1,4-Dioxane	UJ
L2219936	MW23_041522	SW8260C	594-20-7	2,2-Dichloropropane	UJ
L2219936	MW23_041522	SW8260C	78-93-3	2-Butanone	J
L2219936	MW23_041522	SW8260C	591-78-6	2-Hexanone	UJ
L2219936	MW23_041522	SW8260C	108-10-1	4-Methyl-2-Pentanone	UJ
L2219936	MW23_041522	SW8260C	67-64-1	Acetone	J
L2219936	MW23_041522	SW8260C	107-13-1	Acrylonitrile	UJ
L2219936	MW23_041522	SW8260C	71-43-2	Benzene	UJ
L2219936	MW23_041522	SW8260C	108-86-1	Bromobenzene	UJ
L2219936	MW23_041522	SW8260C	74-97-5	Bromochloromethane	UJ
L2219936	MW23_041522	SW8260C	75-27-4	Bromodichloromethane	UJ
L2219936	MW23_041522	SW8260C	75-25-2	Bromoform	UJ
L2219936	MW23_041522	SW8260C	74-83-9	Bromomethane	J
L2219936	MW23_041522	SW8260C	75-15-0	Carbon Disulfide	UJ
L2219936	MW23_041522	SW8260C	56-23-5	Carbon Tetrachloride	UJ
L2219936	MW23_041522	SW8260C	108-90-7	Chlorobenzene	UJ
L2219936	MW23_041522	SW8260C	75-00-3	Chloroethane	UJ
L2219936	MW23_041522	SW8260C	67-66-3	Chloroform	UJ
L2219936	MW23_041522	SW8260C	74-87-3	Chloromethane	J
L2219936	MW23_041522	SW8260C	124-48-1	Dibromochloromethane	UJ
L2219936	MW23_041522	SW8260C	74-95-3	Dibromomethane	UJ
L2219936	MW23_041522	SW8260C	75-71-8	Dichlorodifluoromethane	UJ
L2219936	MW23_041522	SW8260C	60-29-7	Diethyl Ether	UJ
L2219936	MW23_041522	SW8260C	100-41-4	Ethylbenzene	UJ
L2219936	MW23_041522	SW8260C	87-68-3	Hexachlorobutadiene	UJ
L2219936	MW23_041522	SW8260C	98-82-8	Isopropylbenzene	UJ
L2219936	MW23_041522	SW8260C	1634-04-4	Tert-Butyl Methyl Ether	UJ
L2219936	MW23_041522	SW8260C	75-09-2	Methylene Chloride	UJ
L2219936	MW23_041522	SW8260C	91-20-3	Naphthalene	UJ
L2219936	MW23_041522	SW8260C	100-42-5	Styrene	UJ
L2219936	MW23_041522	SW8260C	127-18-4	Tetrachloroethene	UJ
L2219936	MW23_041522	SW8260C	108-88-3	Toluene	UJ
L2219936	MW23_041522	SW8260C	79-01-6	Trichloroethene	UJ
L2219936	MW23_041522	SW8260C	75-69-4	Trichlorofluoromethane	UJ
L2219936	MW23_041522	SW8260C	108-05-4	Vinyl Acetate	UJ
L2219936	MW23_041522	SW8260C	75-01-4	Vinyl Chloride	UJ
L2219936	MW23_041522	SW8260C	1330-20-7	Total Xylenes	UJ
L2219936	MW23_041522	SW8260C	156-59-2	Cis-1,2-Dichloroethene	UJ
L2219936	MW23_041522	SW8260C	10061-01-5	Cis-1,3-Dichloropropene	UJ
L2219936	MW23_041522	SW8260C	104-51-8	n-Butylbenzene	UJ
L2219936	MW23_041522	SW8260C	103-65-1	n-Propylbenzene	UJ
L2219936	MW23_041522	SW8260C	95-49-8	2-Chlorotoluene	UJ
L2219936	MW23_041522	SW8260C	95-47-6	o-Xylene	UJ
L2219936	MW23_041522	SW8260C	106-43-4	4-Chlorotoluene	UJ
L2219936	MW23_041522	SW8260C	105-05-5	1,4-Diethyl Benzene	UJ
L2219936	MW23_041522	SW8260C	622-96-8	4-Ethyltoluene	UJ
L2219936	MW23_041522	SW8260C	99-87-6	Cymene	UJ
L2219936	MW23_041522	SW8260C	179601-23-1	M,P-Xylene	UJ
L2219936	MW23_041522	SW8260C	135-98-8	Sec-Butylbenzene	UJ
L2219936	MW23_041522	SW8260C	98-06-6	T-Butylbenzene	UJ
L2219936	MW23_041522	SW8260C	156-60-5	Trans-1,2-Dichloroethene	UJ

Data Usability Summary Report
For 561 Greenwich Street
January, April, and July 2022 Groundwater Samples
Table 2: Validator-Applied Qualification

SDG	Client Sample ID	Analysis	CAS #	Analyte	Validator Qualifier
L2219936	MW23_041522	SW8260C	10061-02-6	Trans-1,3-Dichloropropene	UJ
L2219936	MW23_041522	SW8260C	110-57-6	Trans-1,4-Dichloro-2-Butene	UJ
L2219936	GWDUP01_041522	SW8260C	630-20-6	1,1,1,2-Tetrachloroethane	UJ
L2219936	GWDUP01_041522	SW8260C	71-55-6	1,1,1-Trichloroethane	UJ
L2219936	GWDUP01_041522	SW8260C	79-34-5	1,1,2,2-Tetrachloroethane	UJ
L2219936	GWDUP01_041522	SW8260C	79-00-5	1,1,2-Trichloroethane	UJ
L2219936	GWDUP01_041522	SW8260C	75-34-3	1,1-Dichloroethane	UJ
L2219936	GWDUP01_041522	SW8260C	75-35-4	1,1-Dichloroethene	UJ
L2219936	GWDUP01_041522	SW8260C	563-58-6	1,1-Dichloropropene	UJ
L2219936	GWDUP01_041522	SW8260C	87-61-6	1,2,3-Trichlorobenzene	UJ
L2219936	GWDUP01_041522	SW8260C	96-18-4	1,2,3-Trichloropropane	UJ
L2219936	GWDUP01_041522	SW8260C	95-93-2	1,2,4,5-Tetramethylbenzene	UJ
L2219936	GWDUP01_041522	SW8260C	120-82-1	1,2,4-Trichlorobenzene	UJ
L2219936	GWDUP01_041522	SW8260C	95-63-6	1,2,4-Trimethylbenzene	UJ
L2219936	GWDUP01_041522	SW8260C	96-12-8	1,2-Dibromo-3-Chloropropane	UJ
L2219936	GWDUP01_041522	SW8260C	106-93-4	1,2-Dibromoethane	UJ
L2219936	GWDUP01_041522	SW8260C	95-50-1	1,2-Dichlorobenzene	UJ
L2219936	GWDUP01_041522	SW8260C	107-06-2	1,2-Dichloroethane	UJ
L2219936	GWDUP01_041522	SW8260C	540-59-0	Total Cis and Trans 1,2-Dichloroethene	UJ
L2219936	GWDUP01_041522	SW8260C	78-87-5	1,2-Dichloropropane	UJ
L2219936	GWDUP01_041522	SW8260C	108-67-8	1,3,5-Trimethylbenzene	UJ
L2219936	GWDUP01_041522	SW8260C	541-73-1	1,3-Dichlorobenzene	UJ
L2219936	GWDUP01_041522	SW8260C	142-28-9	1,3-Dichloropropane	UJ
L2219936	GWDUP01_041522	SW8260C	542-75-6	Total Cis And Trans 1,3-Dichloropropene	UJ
L2219936	GWDUP01_041522	SW8260C	106-46-7	1,4-Dichlorobenzene	UJ
L2219936	GWDUP01_041522	SW8260C	123-91-1	1,4-Dioxane	UJ
L2219936	GWDUP01_041522	SW8260C	594-20-7	2,2-Dichloropropane	UJ
L2219936	GWDUP01_041522	SW8260C	78-93-3	2-Butanone	J
L2219936	GWDUP01_041522	SW8260C	591-78-6	2-Hexanone	UJ
L2219936	GWDUP01_041522	SW8260C	108-10-1	4-Methyl-2-Pentanone	UJ
L2219936	GWDUP01_041522	SW8260C	67-64-1	Acetone	J
L2219936	GWDUP01_041522	SW8260C	107-13-1	Acrylonitrile	UJ
L2219936	GWDUP01_041522	SW8260C	71-43-2	Benzene	UJ
L2219936	GWDUP01_041522	SW8260C	108-86-1	Bromobenzene	UJ
L2219936	GWDUP01_041522	SW8260C	74-97-5	Bromochloromethane	UJ
L2219936	GWDUP01_041522	SW8260C	75-27-4	Bromodichloromethane	UJ
L2219936	GWDUP01_041522	SW8260C	75-25-2	Bromoform	UJ
L2219936	GWDUP01_041522	SW8260C	74-83-9	Bromomethane	J
L2219936	GWDUP01_041522	SW8260C	75-15-0	Carbon Disulfide	UJ
L2219936	GWDUP01_041522	SW8260C	56-23-5	Carbon Tetrachloride	UJ
L2219936	GWDUP01_041522	SW8260C	108-90-7	Chlorobenzene	UJ
L2219936	GWDUP01_041522	SW8260C	75-00-3	Chloroethane	UJ
L2219936	GWDUP01_041522	SW8260C	67-66-3	Chloroform	UJ
L2219936	GWDUP01_041522	SW8260C	74-87-3	Chloromethane	J
L2219936	GWDUP01_041522	SW8260C	124-48-1	Dibromochloromethane	UJ
L2219936	GWDUP01_041522	SW8260C	74-95-3	Dibromomethane	UJ
L2219936	GWDUP01_041522	SW8260C	75-71-8	Dichlorodifluoromethane	UJ
L2219936	GWDUP01_041522	SW8260C	60-29-7	Diethyl Ether	UJ
L2219936	GWDUP01_041522	SW8260C	100-41-4	Ethylbenzene	UJ
L2219936	GWDUP01_041522	SW8260C	87-68-3	Hexachlorobutadiene	UJ
L2219936	GWDUP01_041522	SW8260C	98-82-8	Isopropylbenzene	UJ
L2219936	GWDUP01_041522	SW8260C	1634-04-4	Tert-Butyl Methyl Ether	UJ
L2219936	GWDUP01_041522	SW8260C	75-09-2	Methylene Chloride	UJ
L2219936	GWDUP01_041522	SW8260C	91-20-3	Naphthalene	UJ
L2219936	GWDUP01_041522	SW8260C	100-42-5	Styrene	UJ
L2219936	GWDUP01_041522	SW8260C	127-18-4	Tetrachloroethene	UJ
L2219936	GWDUP01_041522	SW8260C	108-88-3	Toluene	UJ
L2219936	GWDUP01_041522	SW8260C	79-01-6	Trichloroethene	UJ
L2219936	GWDUP01_041522	SW8260C	75-69-4	Trichlorofluoromethane	UJ
L2219936	GWDUP01_041522	SW8260C	108-05-4	Vinyl Acetate	UJ
L2219936	GWDUP01_041522	SW8260C	75-01-4	Vinyl Chloride	UJ
L2219936	GWDUP01_041522	SW8260C	1330-20-7	Total Xylenes	UJ
L2219936	GWDUP01_041522	SW8260C	156-59-2	Cis-1,2-Dichloroethene	UJ
L2219936	GWDUP01_041522	SW8260C	10061-01-5	Cis-1,3-Dichloropropene	UJ
L2219936	GWDUP01_041522	SW8260C	104-51-8	n-Butylbenzene	UJ
L2219936	GWDUP01_041522	SW8260C	103-65-1	n-Propylbenzene	UJ
L2219936	GWDUP01_041522	SW8260C	95-49-8	2-Chlorotoluene	UJ
L2219936	GWDUP01_041522	SW8260C	95-47-6	o-Xylene	UJ
L2219936	GWDUP01_041522	SW8260C	106-43-4	4-Chlorotoluene	UJ
L2219936	GWDUP01_041522	SW8260C	105-05-5	1,4-Diethyl Benzene	UJ
L2219936	GWDUP01_041522	SW8260C	622-96-8	4-Ethyltoluene	UJ
L2219936	GWDUP01_041522	SW8260C	99-87-6	Cymene	UJ
L2219936	GWDUP01_041522	SW8260C	179601-23-1	M,P-Xylene	UJ
L2219936	GWDUP01_041522	SW8260C	135-98-8	Sec-Butylbenzene	UJ
L2219936	GWDUP01_041522	SW8260C	98-06-6	T-Butylbenzene	UJ
L2219936	GWDUP01_041522	SW8260C	156-60-5	Trans-1,2-Dichloroethene	UJ
L2219936	GWDUP01_041522	SW8260C	10061-02-6	Trans-1,3-Dichloropropene	UJ
L2219936	GWDUP01_041522	SW8260C	110-57-6	Trans-1,4-Dichloro-2-Butene	UJ
L2239801	MW23_072622	SW8260C	67-64-1	Acetone	J
L2239801	DUP01_072622	SW8260C	67-64-1	Acetone	J

JOSEPH CONBOY

SENIOR STAFF CHEMIST

ENVIRONMNETAL

Mr. Conboy has eight years of environmental chemistry, quality assurance, and environmental database management experience, with a current emphasis on validation of laboratory data for submittal to NJDEP via the New Jersey Data of Known Quality Protocols and to NYSDEC. Previous work experience includes performing validation of data for projects in USEPA Regions 2 and 3 while employing appropriate validation guidelines for each region, managing large data sets, updating appropriate regulatory limits, performing statistical evaluations, and preparing electronic data deliverables and report deliverables using the Earthsoft EQuIS database program, and acted as an intermediary between project managers, field staff, and laboratories. Mr. Conboy also has experience in field sampling techniques and maintains current OSHA HAZWOPER certification.

EDUCATION

B.Sc., Chemistry with a minor in Mathematics
Rowan University

CERTIFICATIONS & TRAINING

OSHA 40-Hour HAZWOPER 29 CFR 1910.120(e)(4) Certification

NJ Analytical Guidance and Data Usability Training

USEPA Data Validation Training

Earthsoft EQuIS Environmental Database Training

SELECTED PROJECTS

- 1400 Ferris, Bronx, NY – Completed validation of soil and groundwater data and prepared the Data Usability Summary Report for submittal to NYSDEC. USEPA Region II guidelines, with aide from National Functional Guidelines, were employed to perform validation of VOCs and SVOCs including 1,4-dioxane, and tangentially used based on professional judgment to perform validation of PFAS data.
- Broome Street Parking Lot, NY - Completed validation of waste characterization data and prepared the Data Usability Summary Report for submittal to NYSDEC. USEPA Region II guidelines, with aide from National Functional Guidelines, were employed to perform validation of VOCs, SVOCs, herbicides, PCBs, pesticides, metals including mercury, ignitability temperature, pH, reactive cyanide, reactive sulfide, cyanide, and hexavalent chromium. Toxicity characteristic leachate procedure extraction data for VOCs, SVOCs, herbicides, pesticides, metals, and mercury were also validated.
- 215 North 10th Street, Brooklyn, NY - Completed validation of soil and groundwater data and prepared the Data Usability Summary Report for submittal to NYSDEC. USEPA Region II guidelines, with aide from National Functional Guidelines, were employed to perform validation of VOC, SVOC, SVOC SIM, herbicide, PCB, pesticide, metals, mercury, cyanide, hexavalent chromium, trivalent chromium data.
- 35 Commercial Street, Brooklyn, NY - Completed validation of soil data and prepared the Data Usability Summary Report for submittal to NYSDEC. USEPA Region II guidelines, with aide from National Functional Guidelines, were employed to perform validation of VOC, SVOC, SVOC SIM, herbicide, PCB, pesticide, metals, mercury, cyanide, hexavalent chromium, trivalent chromium data, and tangentially used based on professional judgment to perform validation of PFAS data.
- Suffolk Street, Lower East Side, NY- Completed validation of soil, groundwater, and soil vapor data and prepared the Data Usability Summary Report for submittal to NYSDEC. USEPA Region II

guidelines, with aide from National Functional Guidelines, were employed to perform validation of VOC, VOCs by USEPA TO-15, SVOC, SVOC SIM, herbicide, PCB, pesticide, metals, mercury, cyanide, hexavalent chromium, trivalent chromium data, and tangentially used based on professional judgment to perform validation of PFAS data.

- Managed a database for a confidential client containing 10+ years of environmental chemical data from multiple laboratories, requiring select data validation in accordance with New Jersey Data of Known Quality Protocols and identifying areas of delineation from historic field information. Once identified, NJDEP designated groundwater, surface water, soil, sediment, soil vapor, and custom screening criteria were researched and applied to each area, requiring individualized flagging for reporting.*
- Prepared the New Jersey Data of Known Quality Protocol Data Usability Evaluation and managed the database for a confidential client for a data set greater than 20 years old. A DUE or any validation effort was not prepared in the 20 years prior to current. This included data from variations of methods for volatile organic compounds, semivolatile organic compounds, total and dissolved metals, pesticides, herbicides, natural attenuation parameters, and per- and polyfluoroalkyl substances in multiple media.*
- Performed 200+ Stage 2a validations for a combined 87-acre USEPA designated Corrective Action site under the Resource Conservation and Recovery Act, including a quick-turn USEPA required PCB by soxhlet extraction investigation across multiple plants. Once a former train car painting facility, USEPA required a quick-turn PCB by soxhlet extraction soil investigation.
- Preparation of a quality assurance program for a confidential client in West Virginia. A quick turn QAPP was prepared in a service location new to the consultant, resulting in research into state requirements for data usability and auditing newly employed laboratories. The QAPP was understood to be prepared for groundwater only, but the client did not reveal the need for sediment and soil. Two QAPPs were submitted for review to governing agencies.*
- Used statistical software to determine a localized background upper confidence limit of chromium for a confidential client's sand and gravel site. Validation was used to confirm laboratory procedures, and data was used in ProUCL calculations to compare to researched background chromium levels for Pennsylvania soils. *
- Prepared daily perimeter dust and air monitoring summaries and validation of low level mirex data for a confidential client's superfund site. Low level mirex data was generated by university laboratories and subject to validation following national functional guidelines to aide in river clean-up, including sediment, surface water, and treatment system water matrices.*

**Project completed prior to employment at LANGAN.*

ATTACHMENT 3

LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

Lab Number:	L2204920
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Elizabeth Adkins
Phone:	(212) 479-5400
Project Name:	561 GREENWICH ST
Project Number:	190043702
Report Date:	02/03/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2204920
Report Date: 02/03/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2204920-01	MW21_012822	WATER	561 GREENWICH ST, NEW YORK, NY	01/28/22 14:45	01/28/22
L2204920-02	MW22_012822	WATER	561 GREENWICH ST, NEW YORK, NY	01/28/22 11:45	01/28/22
L2204920-03	MW23_012822	WATER	561 GREENWICH ST, NEW YORK, NY	01/28/22 11:15	01/28/22
L2204920-04	GWDUP01_012822	WATER	561 GREENWICH ST, NEW YORK, NY	01/28/22 00:00	01/28/22
L2204920-05	GWFB01_012822	WATER	561 GREENWICH ST, NEW YORK, NY	01/28/22 00:00	01/28/22
L2204920-06	GWTB01_012822	WATER	561 GREENWICH ST, NEW YORK, NY	01/28/22 00:00	01/28/22

Project Name:	561 GREENWICH ST	**Lab Number:**	L2204920
Project Number:	190043702	**Report Date:**	02/03/22

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:	561 GREENWICH ST	**Lab Number:**	L2204920
Project Number:	190043702	**Report Date:**	02/03/22

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2204920-03D: Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 02/03/22

ORGANICS

VOLATILES

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-01 D
Client ID: MW21_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 14:45
Date Received: 01/28/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/01/22 10:45
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	250	70.	100
1,1-Dichloroethane	ND		ug/l	250	70.	100
Chloroform	ND		ug/l	250	70.	100
Carbon tetrachloride	ND		ug/l	50	13.	100
1,2-Dichloropropane	ND		ug/l	100	14.	100
Dibromochloromethane	ND		ug/l	50	15.	100
1,1,2-Trichloroethane	ND		ug/l	150	50.	100
Tetrachloroethene	ND		ug/l	50	18.	100
Chlorobenzene	ND		ug/l	250	70.	100
Trichlorofluoromethane	ND		ug/l	250	70.	100
1,2-Dichloroethane	ND		ug/l	50	13.	100
1,1,1-Trichloroethane	ND		ug/l	250	70.	100
Bromodichloromethane	ND		ug/l	50	19.	100
trans-1,3-Dichloropropene	ND		ug/l	50	16.	100
cis-1,3-Dichloropropene	ND		ug/l	50	14.	100
1,3-Dichloropropene, Total	ND		ug/l	50	14.	100
1,1-Dichloropropene	ND		ug/l	250	70.	100
Bromoform	ND		ug/l	200	65.	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	17.	100
Benzene	1400		ug/l	50	16.	100
Toluene	8700		ug/l	250	70.	100
Ethylbenzene	980		ug/l	250	70.	100
Chloromethane	ND		ug/l	250	70.	100
Bromomethane	ND		ug/l	250	70.	100
Vinyl chloride	ND		ug/l	100	7.1	100
Chloroethane	ND		ug/l	250	70.	100
1,1-Dichloroethene	ND		ug/l	50	17.	100
trans-1,2-Dichloroethene	ND		ug/l	250	70.	100

Project Name: 561 GREENWICH ST **Lab Number:** L2204920

Project Number: 190043702 **Report Date:** 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-01 D Date Collected: 01/28/22 14:45

Client ID: MW21_012822 Date Received: 01/28/22

Sample Location: 561 GREENWICH ST, NEW YORK, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	50	18.	100
1,2-Dichlorobenzene	ND		ug/l	250	70.	100
1,3-Dichlorobenzene	ND		ug/l	250	70.	100
1,4-Dichlorobenzene	ND		ug/l	250	70.	100
Methyl tert butyl ether	ND		ug/l	250	70.	100
p/m-Xylene	4800		ug/l	250	70.	100
o-Xylene	2900		ug/l	250	70.	100
Xylenes, Total	7700		ug/l	250	70.	100
cis-1,2-Dichloroethene	ND		ug/l	250	70.	100
1,2-Dichloroethene, Total	ND		ug/l	250	70.	100
Dibromomethane	ND		ug/l	500	100	100
1,2,3-Trichloropropane	ND		ug/l	250	70.	100
Acrylonitrile	ND		ug/l	500	150	100
Styrene	ND		ug/l	250	70.	100
Dichlorodifluoromethane	ND		ug/l	500	100	100
Acetone	160	J	ug/l	500	150	100
Carbon disulfide	ND		ug/l	500	100	100
2-Butanone	ND		ug/l	500	190	100
Vinyl acetate	ND		ug/l	500	100	100
4-Methyl-2-pentanone	ND		ug/l	500	100	100
2-Hexanone	ND		ug/l	500	100	100
Bromochloromethane	ND		ug/l	250	70.	100
2,2-Dichloropropane	ND		ug/l	250	70.	100
1,2-Dibromoethane	ND		ug/l	200	65.	100
1,3-Dichloropropane	ND		ug/l	250	70.	100
1,1,1,2-Tetrachloroethane	ND		ug/l	250	70.	100
Bromobenzene	ND		ug/l	250	70.	100
n-Butylbenzene	ND		ug/l	250	70.	100
sec-Butylbenzene	ND		ug/l	250	70.	100
tert-Butylbenzene	ND		ug/l	250	70.	100
o-Chlorotoluene	ND		ug/l	250	70.	100
p-Chlorotoluene	ND		ug/l	250	70.	100
1,2-Dibromo-3-chloropropane	ND		ug/l	250	70.	100
Hexachlorobutadiene	ND		ug/l	250	70.	100
Isopropylbenzene	ND		ug/l	250	70.	100
p-Isopropyltoluene	ND		ug/l	250	70.	100
Naphthalene	ND		ug/l	250	70.	100

Project Name: 561 GREENWICH ST **Lab Number:** L2204920

Project Number: 190043702 **Report Date:** 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-01 D Date Collected: 01/28/22 14:45

Client ID: MW21_012822 Date Received: 01/28/22

Sample Location: 561 GREENWICH ST, NEW YORK, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	250	70.	100
1,2,3-Trichlorobenzene	ND		ug/l	250	70.	100
1,2,4-Trichlorobenzene	ND		ug/l	250	70.	100
1,3,5-Trimethylbenzene	80	J	ug/l	250	70.	100
1,2,4-Trimethylbenzene	490		ug/l	250	70.	100
1,4-Dioxane	ND		ug/l	25000	6100	100
p-Diethylbenzene	ND		ug/l	200	70.	100
p-Ethyltoluene	290		ug/l	200	70.	100
1,2,4,5-Tetramethylbenzene	ND		ug/l	200	54.	100
Ethyl ether	ND		ug/l	250	70.	100
trans-1,4-Dichloro-2-butene	ND		ug/l	250	70.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	98		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-02
Client ID: MW22_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 11:45
Date Received: 01/28/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/01/22 11:08
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	1.6	J	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	1.5		ug/l	0.50	0.18	1
Chlorobenzene	3.5		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
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	1.5		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	0.88	J	ug/l	2.5	0.70	1
Bromomethane	4.4		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: 561 GREENWICH ST **Lab Number:** L2204920

Project Number: 190043702 **Report Date:** 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-02 Date Collected: 01/28/22 11:45

Client ID: MW22_012822 Date Received: 01/28/22

Sample Location: 561 GREENWICH ST, NEW YORK, NY Field Prep: Refer to COC

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	0.70	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	42		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	4.7	J	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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-02
Client ID: MW22_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 11:45
Date Received: 01/28/22
Field Prep: Refer to COC

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	102		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	109		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-03
Client ID: MW23_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 11:15
Date Received: 01/28/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/01/22 11:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	2.2	J	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
1,1,2,2-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	2.7		ug/l	2.5	0.70	1
Bromomethane	7.5		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: 561 GREENWICH ST **Lab Number:** L2204920

Project Number: 190043702 **Report Date:** 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-03 Date Collected: 01/28/22 11:15

Client ID: MW23_012822 Date Received: 01/28/22

Sample Location: 561 GREENWICH ST, NEW YORK, NY Field Prep: Refer to COC

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	0.70	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	220	E	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	18		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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-03
Client ID: MW23_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 11:15
Date Received: 01/28/22
Field Prep: Refer to COC

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	108		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	114		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-03 D
Client ID: MW23_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 11:15
Date Received: 01/28/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/02/22 09:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Acetone	40		ug/l	20	5.8	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-04
Client ID: GWDUP01_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 00:00
Date Received: 01/28/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/01/22 11:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	1.6	J	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	0.33	J	ug/l	0.50	0.18	1
Chlorobenzene	2.1	J	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
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	4.6		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	0.90	J	ug/l	2.5	0.70	1
Bromomethane	2.3	J	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: 561 GREENWICH ST **Lab Number:** L2204920

Project Number: 190043702 **Report Date:** 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-04 Date Collected: 01/28/22 00:00

Client ID: GWDUP01_012822 Date Received: 01/28/22

Sample Location: 561 GREENWICH ST, NEW YORK, NY Field Prep: Refer to COC

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	0.70	1
p/m-Xylene	0.76	J	ug/l	2.5	0.70	1
o-Xylene	0.80	J	ug/l	2.5	0.70	1
Xylenes, Total	1.6	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	54		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	14		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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-04
Client ID: GWDUP01_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 00:00
Date Received: 01/28/22
Field Prep: Refer to COC

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	1.4	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	0.89	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	2.6		ug/l	2.0	0.70	1
p-Ethyltoluene	0.80	J	ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	0.58	J	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	100		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	104		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-05
Client ID: GWFB01_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 00:00
Date Received: 01/28/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/01/22 09:59
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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: 561 GREENWICH ST **Lab Number:** L2204920

Project Number: 190043702 **Report Date:** 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-05 Date Collected: 01/28/22 00:00

Client ID: GWFB01_012822 Date Received: 01/28/22

Sample Location: 561 GREENWICH ST, NEW YORK, NY Field Prep: None

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	0.70	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: 561 GREENWICH ST **Lab Number:** L2204920

Project Number: 190043702 **Report Date:** 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-05 Date Collected: 01/28/22 00:00

Client ID: GWFB01_012822 Date Received: 01/28/22

Sample Location: 561 GREENWICH ST, NEW YORK, NY Field Prep: None

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	103		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	106		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-06
Client ID: GWTB01_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Date Collected: 01/28/22 00:00
Date Received: 01/28/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/01/22 10:22
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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: 561 GREENWICH ST **Lab Number:** L2204920

Project Number: 190043702 **Report Date:** 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-06 Date Collected: 01/28/22 00:00

Client ID: GWTB01_012822 Date Received: 01/28/22

Sample Location: 561 GREENWICH ST, NEW YORK, NY Field Prep: None

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	0.70	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: 561 GREENWICH ST **Lab Number:** L2204920

Project Number: 190043702 **Report Date:** 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-06 Date Collected: 01/28/22 00:00

Client ID: GWTB01_012822 Date Received: 01/28/22

Sample Location: 561 GREENWICH ST, NEW YORK, NY Field Prep: None

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	101		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	106		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/01/22 08:50
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1600511-5					
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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/01/22 08:50
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1600511-5					
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	0.70
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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/01/22 08:50
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1600511-5					
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	102		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	108		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/22 08:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1600835-5					
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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/22 08:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1600835-5					
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	0.70
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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/22 08:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1600835-5					
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	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

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: WG1600511-3 WG1600511-4								
Methylene chloride	95		93		70-130	2		20
1,1-Dichloroethane	96		95		70-130	1		20
Chloroform	98		98		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	97		98		70-130	1		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	99		100		70-130	1		20
Tetrachloroethene	120		110		70-130	9		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	96		92		62-150	4		20
1,2-Dichloroethane	95		96		70-130	1		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	97		96		67-130	1		20
trans-1,3-Dichloropropene	87		88		70-130	1		20
cis-1,3-Dichloropropene	97		98		70-130	1		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	97		100		54-136	3		20
1,1,2,2-Tetrachloroethane	95		100		67-130	5		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	83		82		64-130	1		20
Bromomethane	130		110		39-139	17		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

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: WG1600511-3 WG1600511-4								
Vinyl chloride	95		94		55-140	1		20
Chloroethane	90		88		55-138	2		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	100		110		70-130	10		20
1,2,3-Trichloropropane	90		95		64-130	5		20
Acrylonitrile	100		110		70-130	10		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	86		84		36-147	2		20
Acetone	98		93		58-148	5		20
Carbon disulfide	100		98		51-130	2		20
2-Butanone	100		96		63-138	4		20
Vinyl acetate	97		98		70-130	1		20
4-Methyl-2-pentanone	100		100		59-130	0		20
2-Hexanone	86		89		57-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2204920
Report Date: 02/03/22

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: WG1600511-3 WG1600511-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	110		110		70-130	0		20
1,3-Dichloropropane	98		98		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	96		96		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	92		93		70-130	1		20
p-Chlorotoluene	94		94		70-130	0		20
1,2-Dibromo-3-chloropropane	100		110		41-144	10		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	110		120		70-130	9		20
n-Propylbenzene	99		99		69-130	0		20
1,2,3-Trichlorobenzene	110		120		70-130	9		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	97		97		64-130	0		20
1,2,4-Trimethylbenzene	97		98		70-130	1		20
1,4-Dioxane	136		128		56-162	6		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

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: WG1600511-3 WG1600511-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	99		100		70-130	1		20
Ethyl ether	97		96		59-134	1		20
trans-1,4-Dichloro-2-butene	80		85		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		101		70-130
Toluene-d8	95		96		70-130
4-Bromofluorobenzene	90		91		70-130
Dibromofluoromethane	102		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1600835-3 WG1600835-4								
Methylene chloride	110		99		70-130	11		20
1,1-Dichloroethane	100		92		70-130	8		20
Chloroform	97		87		70-130	11		20
Carbon tetrachloride	95		88		63-132	8		20
1,2-Dichloropropane	99		90		70-130	10		20
Dibromochloromethane	86		88		63-130	2		20
1,1,2-Trichloroethane	91		93		70-130	2		20
Tetrachloroethene	100		98		70-130	2		20
Chlorobenzene	100		95		75-130	5		20
Trichlorofluoromethane	79		73		62-150	8		20
1,2-Dichloroethane	86		88		70-130	2		20
1,1,1-Trichloroethane	87		82		67-130	6		20
Bromodichloromethane	92		88		67-130	4		20
trans-1,3-Dichloropropene	88		87		70-130	1		20
cis-1,3-Dichloropropene	88		88		70-130	0		20
1,1-Dichloropropene	98		84		70-130	15		20
Bromoform	96		100		54-136	4		20
1,1,2,2-Tetrachloroethane	94		94		67-130	0		20
Benzene	100		87		70-130	14		20
Toluene	98		92		70-130	6		20
Ethylbenzene	99		94		70-130	5		20
Chloromethane	85		75		64-130	13		20
Bromomethane	69		63		39-139	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2204920
Report Date: 02/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1600835-3 WG1600835-4								
Vinyl chloride	92		79		55-140	15		20
Chloroethane	82		86		55-138	5		20
1,1-Dichloroethene	120		110		61-145	9		20
trans-1,2-Dichloroethene	100		98		70-130	2		20
Trichloroethene	99		93		70-130	6		20
1,2-Dichlorobenzene	96		95		70-130	1		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	86		90		63-130	5		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	100		87		70-130	14		20
Dibromomethane	91		91		70-130	0		20
1,2,3-Trichloropropane	84		91		64-130	8		20
Acrylonitrile	82		88		70-130	7		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	65		56		36-147	15		20
Acetone	110		120		58-148	9		20
Carbon disulfide	120		100		51-130	18		20
2-Butanone	81		76		63-138	6		20
Vinyl acetate	84		94		70-130	11		20
4-Methyl-2-pentanone	81		82		59-130	1		20
2-Hexanone	76		88		57-130	15		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2204920
Report Date: 02/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1600835-3 WG1600835-4								
Bromochloromethane	100		110		70-130	10		20
2,2-Dichloropropane	84		74		63-133	13		20
1,2-Dibromoethane	93		95		70-130	2		20
1,3-Dichloropropane	92		95		70-130	3		20
1,1,1,2-Tetrachloroethane	95		91		64-130	4		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	85		90		53-136	6		20
sec-Butylbenzene	92		95		70-130	3		20
tert-Butylbenzene	97		95		70-130	2		20
o-Chlorotoluene	98		94		70-130	4		20
p-Chlorotoluene	100		96		70-130	4		20
1,2-Dibromo-3-chloropropane	91		100		41-144	9		20
Hexachlorobutadiene	92		97		63-130	5		20
Isopropylbenzene	99		93		70-130	6		20
p-Isopropyltoluene	93		94		70-130	1		20
Naphthalene	89		94		70-130	5		20
n-Propylbenzene	96		92		69-130	4		20
1,2,3-Trichlorobenzene	96		97		70-130	1		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	94		92		64-130	2		20
1,2,4-Trimethylbenzene	94		91		70-130	3		20
1,4-Dioxane	124		158		56-162	**24**	Q	20
p-Diethylbenzene	89		92		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1600835-3 WG1600835-4								
p-Ethyltoluene	97		94		70-130	3		20
1,2,4,5-Tetramethylbenzene	91		92		70-130	1		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	93		93		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		92		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	99		97		70-130
Dibromofluoromethane	102		104		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

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: WG1600511-6 WG1600511-7 QC Sample: L2204920-01 Client ID: MW21_012822												
Methylene chloride	ND	1000	930	93		930	93		70-130	0		20
1,1-Dichloroethane	ND	1000	940	94		950	95		70-130	1		20
Chloroform	ND	1000	950	95		970	97		70-130	2		20
Carbon tetrachloride	ND	1000	910	91		1000	100		63-132	9		20
1,2-Dichloropropane	ND	1000	980	98		990	99		70-130	1		20
Dibromochloromethane	ND	1000	1000	100		1000	100		63-130	0		20
1,1,2-Trichloroethane	ND	1000	1000	100		1000	100		70-130	0		20
Tetrachloroethene	ND	1000	1100	110		1200	120		70-130	9		20
Chlorobenzene	ND	1000	970	97		1000	100		75-130	3		20
Trichlorofluoromethane	ND	1000	920	92		1000	100		62-150	8		20
1,2-Dichloroethane	ND	1000	980	98		980	98		70-130	0		20
1,1,1-Trichloroethane	ND	1000	1000	100		1100	110		67-130	10		20
Bromodichloromethane	ND	1000	920	92		940	94		67-130	2		20
trans-1,3-Dichloropropene	ND	1000	800	80		820	82		70-130	2		20
cis-1,3-Dichloropropene	ND	1000	880	88		910	91		70-130	3		20
1,1-Dichloropropene	ND	1000	990	99		1100	110		70-130	11		20
Bromoform	ND	1000	930	93		920	92		54-136	1		20
1,1,2,2-Tetrachloroethane	ND	1000	1000	100		1000	100		67-130	0		20
Benzene	1400	1000	2300	90		2300	90		70-130	0		20
Toluene	8700	1000	8900	**20**	Q	8900	**20**	Q	70-130	0		20
Ethylbenzene	980	1000	1800	82		1900	92		70-130	5		20
Chloromethane	ND	1000	890	89		910	91		64-130	2		20
Bromomethane	ND	1000	1000	100		1000	100		39-139	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

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: WG1600511-6 WG1600511-7 QC Sample: L2204920-01 Client ID: MW21_012822												
Vinyl chloride	ND	1000	960	96		1000	100		55-140	4		20
Chloroethane	ND	1000	890	89		930	93		55-138	4		20
1,1-Dichloroethene	ND	1000	1000	100		1100	110		61-145	10		20
trans-1,2-Dichloroethene	ND	1000	1000	100		1100	110		70-130	10		20
Trichloroethene	ND	1000	1000	100		1000	100		70-130	0		20
1,2-Dichlorobenzene	ND	1000	990	99		1000	100		70-130	1		20
1,3-Dichlorobenzene	ND	1000	960	96		1000	100		70-130	4		20
1,4-Dichlorobenzene	ND	1000	960	96		1000	100		70-130	4		20
Methyl tert butyl ether	ND	1000	1100	110		1100	110		63-130	0		20
p/m-Xylene	4800	2000	6200	70		6400	80		70-130	3		20
o-Xylene	2900	2000	4600	85		4700	90		70-130	2		20
cis-1,2-Dichloroethene	ND	1000	1000	100		1000	100		70-130	0		20
Dibromomethane	ND	1000	1000	100		1000	100		70-130	0		20
1,2,3-Trichloropropane	ND	1000	990	99		970	97		64-130	2		20
Acrylonitrile	ND	1000	1200	120		1200	120		70-130	0		20
Styrene	ND	2000	2000	100		2100	105		70-130	5		20
Dichlorodifluoromethane	ND	1000	800	80		900	90		36-147	12		20
Acetone	160J	1000	1200	120		1100	110		58-148	9		20
Carbon disulfide	ND	1000	920	92		970	97		51-130	5		20
2-Butanone	ND	1000	1100	110		910	91		63-138	19		20
Vinyl acetate	ND	1000	1100	110		1000	100		70-130	10		20
4-Methyl-2-pentanone	ND	1000	1200	120		1100	110		59-130	9		20
2-Hexanone	ND	1000	980	98		980	98		57-130	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

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: WG1600511-6 WG1600511-7 QC Sample: L2204920-01 Client ID: MW21_012822												
Bromochloromethane	ND	1000	1100	110		1100	110		70-130	0		20
2,2-Dichloropropane	ND	1000	840	84		830	83		63-133	1		20
1,2-Dibromoethane	ND	1000	1100	110		1100	110		70-130	0		20
1,3-Dichloropropane	ND	1000	1000	100		1000	100		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	1000	980	98		1000	100		64-130	2		20
Bromobenzene	ND	1000	980	98		1000	100		70-130	2		20
n-Butylbenzene	ND	1000	860	86		930	93		53-136	8		20
sec-Butylbenzene	ND	1000	930	93		1000	100		70-130	7		20
tert-Butylbenzene	ND	1000	940	94		1000	100		70-130	6		20
o-Chlorotoluene	ND	1000	1000	100		1100	110		70-130	10		20
p-Chlorotoluene	ND	1000	860	86		910	91		70-130	6		20
1,2-Dibromo-3-chloropropane	ND	1000	1000	100		1000	100		41-144	0		20
Hexachlorobutadiene	ND	1000	940	94		1000	100		63-130	6		20
Isopropylbenzene	ND	1000	950	95		1000	100		70-130	5		20
p-Isopropyltoluene	ND	1000	950	95		1000	100		70-130	5		20
Naphthalene	ND	1000	1200	120		1200	120		70-130	0		20
n-Propylbenzene	ND	1000	930	93		1000	100		69-130	7		20
1,2,3-Trichlorobenzene	ND	1000	1100	110		1100	110		70-130	0		20
1,2,4-Trichlorobenzene	ND	1000	1000	100		1100	110		70-130	10		20
1,3,5-Trimethylbenzene	80J	1000	980	98		1000	100		64-130	2		20
1,2,4-Trimethylbenzene	490	1000	1400	91		1400	91		70-130	0		20
1,4-Dioxane	ND	50000	68000	136		63000	126		56-162	8		20
p-Diethylbenzene	ND	1000	950	95		1000	100		70-130	5		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

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: WG1600511-6 WG1600511-7 QC Sample: L2204920-01 Client ID: MW21_012822												
p-Ethyltoluene	290	1000	1200	91		1300	101		70-130	8		20
1,2,4,5-Tetramethylbenzene	ND	1000	930	93		980	98		70-130	5		20
Ethyl ether	ND	1000	1000	100		1000	100		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	1000	790	79		820	82		70-130	4		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
4-Bromofluorobenzene	92		91		70-130
Dibromofluoromethane	100		99		70-130
Toluene-d8	95		97		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-01
Client ID: MW21_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Sample Depth:
Matrix: Water
Date Collected: 01/28/22 14:45
Date Received: 01/28/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	140		mg/l	120	17.	12.5	02/02/22 08:39	02/02/22 08:39	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-02
Client ID: MW22_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Sample Depth:
Matrix: Water
Date Collected: 01/28/22 11:45
Date Received: 01/28/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	590		mg/l	500	68.	50	02/02/22 08:39	02/02/22 08:39	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-03
Client ID: MW23_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Sample Depth:
Matrix: Water
Date Collected: 01/28/22 11:15
Date Received: 01/28/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	1600		mg/l	500	68.	50	02/02/22 08:39	02/02/22 08:39	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-04
Client ID: GWDUP01_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Sample Depth:
Matrix: Water
Date Collected: 01/28/22 00:00
Date Received: 01/28/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	680		mg/l	500	68.	50	02/02/22 08:39	02/02/22 08:39	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

SAMPLE RESULTS

Lab ID: L2204920-05
Client ID: GWFB01_012822
Sample Location: 561 GREENWICH ST, NEW YORK, NY
Sample Depth:
Matrix: Water
Date Collected: 01/28/22 00:00
Date Received: 01/28/22
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	ND		mg/l	10	1.4	1	02/02/22 08:39	02/02/22 08:39	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2204920
Report Date: 02/03/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1600560-1										
Sulfate	ND		mg/l	10	1.4	1	02/02/22 08:39	02/02/22 08:39	1,9038	MC

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1600560-2								
Sulfate	95		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2204920
Report Date: 02/03/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1600560-4 QC Sample: L2204920-01 Client ID: MW21_012822												
Sulfate	140	500	700	111		-	-		55-147	-		14

Lab Duplicate Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2204920

Report Date: 02/03/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1600560-3 QC Sample: L2204920-01 Client ID: MW21_012822						
Sulfate	140	140	mg/l	0		14

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2204920
Report Date: 02/03/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2204920-01A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-01A1	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-01A2	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-01B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-01B1	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-01B2	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-01C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-01C1	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-01C2	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-01D	Plastic 120ml unpreserved	A	9	9	2.8	Y	Absent		SO4-9038(28)
L2204920-01D1	Plastic 120ml unpreserved	A	9	9	2.8	Y	Absent		SO4-9038(28)
L2204920-01D2	Plastic 120ml unpreserved	A	9	9	2.8	Y	Absent		SO4-9038(28)
L2204920-02A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-02B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-02C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-02D	Plastic 120ml unpreserved	A	9	9	2.8	Y	Absent		SO4-9038(28)
L2204920-03A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-03B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-03C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-03D	Plastic 120ml unpreserved	A	9	9	2.8	Y	Absent		SO4-9038(28)
L2204920-04A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-04B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-04C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2204920
Report Date: 02/03/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2204920-04D	Plastic 120ml unpreserved	A	9	9	2.8	Y	Absent		SO4-9038(28)
L2204920-05A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-05B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-05C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-05D	Plastic 120ml unpreserved	A	7	7	2.8	Y	Absent		SO4-9038(28)
L2204920-06A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2204920-06B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	561 GREENWICH ST	**Lab Number:**	L2204920
Project Number:	190043702	**Report Date:**	02/03/22

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:	561 GREENWICH ST	**Lab Number:**	L2204920
Project Number:	190043702	**Report Date:**	02/03/22

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.

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'.

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.

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.)

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 Identified Compounds (TICs).

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	561 GREENWICH ST	**Lab Number:**	L2204920
Project Number:	190043702	**Report Date:**	02/03/22

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	561 GREENWICH ST	**Lab Number:**	L2204920
Project Number:	190043702	**Report Date:**	02/03/22

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
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.
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 332: Perchlorate; **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), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, 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.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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 ___ of ___

Date Rec'd in Lab: 1/28/22

ALPHA Job #: L2204920

Project Information
Project Name: 561 Greenwich St
Project Location: 561 Greenwich St. New York, NY
Project #: 19004302
(Use Project name as Project #) ☒
Project Manager: Elizabeth Adkins
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information
Client: Langan DPC
Address: 360 W. 31st St. New York, NY 10001
Phone: 2124795400
Fax:
Email: eadkins@langan.com

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
MS/MSD for MW21_012822

Please specify Metals or TAL.

Sample Filtration: ☒ Done ☐ Lab to do
Preservation: ☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	Sulfate							Sample Specific Comments	Total Bottles
04920-01	MW21-012822	1/28/22	1445	GW	CD	X	X					MS/MSD		Field Filtered	
02	MW22-012822	↓	1145	GW	CD	X	X							↓	
03	MW23-012822	↓	1115	GW	CD	X	X							↓	
04	GWDUP01-012822	↓		GW	CD	X	X							↓	
05	GWFB01-012822	↓			CD	X	X								
06	GWTB01-012822	↓				X									

	VOCs	Sulfate
Container Type	V	P
Preservative	B	A

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, 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

Relinquished By:	Date/Time	Received By:	Date/Time
Caroline Devin	1/28/22	[signature]	1/28/22 15:2
[signature]	1/28/22 17:…	Paul Mazzella	1/28/22 1735
Paul Mazzella	1/28/22	[signature]	1/28/22 2330

7/1/22 2/…

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2219936
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Elizabeth Adkins
Phone:	(212) 479-5400
Project Name:	561 GREENWICH ST
Project Number:	190043702
Report Date:	04/21/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2219936
Report Date: 04/21/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2219936-01	MW21_041522	WATER	561 GREENWICH ST	04/15/22 16:20	04/15/22
L2219936-02	MW22_041522	WATER	561 GREENWICH ST	04/15/22 16:15	04/15/22
L2219936-03	MW23_041522	WATER	561 GREENWICH ST	04/15/22 10:30	04/15/22
L2219936-04	GWDUP01_041522	WATER	561 GREENWICH ST	04/15/22 00:00	04/15/22
L2219936-05	GWFB01_041522	WATER	561 GREENWICH ST	04/15/22 15:15	04/15/22
L2219936-06	GWTB01_041522	WATER	561 GREENWICH ST	04/15/22 00:00	04/15/22

Project Name:	561 GREENWICH ST	**Lab Number:**	L2219936
Project Number:	190043702	**Report Date:**	04/21/22

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:	561 GREENWICH ST	**Lab Number:**	L2219936
Project Number:	190043702	**Report Date:**	04/21/22

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2219936-03 and -04: Headspace was noted in the sample containers submitted for TCL Volatiles - EPA 8260C. The analysis was performed at the client's request.

Volatile Organics

L2219936-04: Headspace was noted in the sample container utilized for analysis.

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 04/21/22

ORGANICS

VOLATILES

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-01 D
Client ID: MW21_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 16:20
Date Received: 04/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/18/22 14:19
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
1,3-Dichloropropene, Total	ND		ug/l	10	2.9	20
1,1-Dichloropropene	ND		ug/l	50	14.	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	340		ug/l	10	3.2	20
Toluene	1900		ug/l	50	14.	20
Ethylbenzene	400		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20

Project Name: 561 GREENWICH ST **Lab Number:** L2219936

Project Number: 190043702 **Report Date:** 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-01 D
Client ID: MW21_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 16:20
Date Received: 04/15/22
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	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	2200		ug/l	50	14.	20
o-Xylene	1000		ug/l	50	14.	20
Xylenes, Total	3200		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
1,2-Dichloroethene, Total	ND		ug/l	50	14.	20
Dibromomethane	ND		ug/l	100	20.	20
1,2,3-Trichloropropane	ND		ug/l	50	14.	20
Acrylonitrile	ND		ug/l	100	30.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	100		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
Vinyl acetate	ND		ug/l	100	20.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
2,2-Dichloropropane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,3-Dichloropropane	ND		ug/l	50	14.	20
1,1,1,2-Tetrachloroethane	ND		ug/l	50	14.	20
Bromobenzene	ND		ug/l	50	14.	20
n-Butylbenzene	ND		ug/l	50	14.	20
sec-Butylbenzene	ND		ug/l	50	14.	20
tert-Butylbenzene	ND		ug/l	50	14.	20
o-Chlorotoluene	ND		ug/l	50	14.	20
p-Chlorotoluene	ND		ug/l	50	14.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Hexachlorobutadiene	ND		ug/l	50	14.	20
Isopropylbenzene	56		ug/l	50	14.	20
p-Isopropyltoluene	ND		ug/l	50	14.	20
Naphthalene	130		ug/l	50	14.	20

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-01 D
Client ID: MW21_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 16:20
Date Received: 04/15/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	140		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
1,3,5-Trimethylbenzene	310		ug/l	50	14.	20
1,2,4-Trimethylbenzene	1100		ug/l	50	14.	20
1,4-Dioxane	ND		ug/l	5000	1200	20
p-Diethylbenzene	140		ug/l	40	14.	20
p-Ethyltoluene	960		ug/l	40	14.	20
1,2,4,5-Tetramethylbenzene	57		ug/l	40	11.	20
Ethyl ether	ND		ug/l	50	14.	20
trans-1,4-Dichloro-2-butene	ND		ug/l	50	14.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-02
Client ID: MW22_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 16:15
Date Received: 04/15/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/18/22 13:55
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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: 561 GREENWICH ST **Lab Number:** L2219936

Project Number: 190043702 **Report Date:** 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-02 Date Collected: 04/15/22 16:15

Client ID: MW22_041522 Date Received: 04/15/22

Sample Location: 561 GREENWICH ST Field Prep: Refer to COC

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	0.70	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	240	E	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	11		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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-02
Client ID: MW22_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 16:15
Date Received: 04/15/22
Field Prep: Refer to COC

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	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-02 D
Client ID: MW22_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 16:15
Date Received: 04/15/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/20/22 03:54
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Acetone	190		ug/l	25	7.3	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-03
Client ID: MW23_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 10:30
Date Received: 04/15/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/18/22 13:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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	1.8	J	ug/l	2.5	0.70	1
Bromomethane	3.7		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: 561 GREENWICH ST **Lab Number:** L2219936

Project Number: 190043702 **Report Date:** 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-03 Date Collected: 04/15/22 10:30

Client ID: MW23_041522 Date Received: 04/15/22

Sample Location: 561 GREENWICH ST Field Prep: Refer to COC

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	0.70	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	34		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	4.2	J	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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-03
Client ID: MW23_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 10:30
Date Received: 04/15/22
Field Prep: Refer to COC

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	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-04
Client ID: GWDUP01_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 00:00
Date Received: 04/15/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/18/22 13:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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	2.1	J	ug/l	2.5	0.70	1
Bromomethane	7.6		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: 561 GREENWICH ST **Lab Number:** L2219936

Project Number: 190043702 **Report Date:** 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-04 Date Collected: 04/15/22 00:00

Client ID: GWDUP01_041522 Date Received: 04/15/22

Sample Location: 561 GREENWICH ST Field Prep: Refer to COC

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	0.70	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	55		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	4.2	J	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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-04
Client ID: GWDUP01_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 00:00
Date Received: 04/15/22
Field Prep: Refer to COC

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	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	107		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-05
Client ID: GWFB01_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 15:15
Date Received: 04/15/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/18/22 12:22
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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: 561 GREENWICH ST **Lab Number:** L2219936

Project Number: 190043702 **Report Date:** 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-05 Date Collected: 04/15/22 15:15

Client ID: GWFB01_041522 Date Received: 04/15/22

Sample Location: 561 GREENWICH ST Field Prep: Refer to COC

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	0.70	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	7.2		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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-05
Client ID: GWFB01_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 15:15
Date Received: 04/15/22
Field Prep: Refer to COC

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	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-05 R
Client ID: GWFB01_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 15:15
Date Received: 04/15/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/19/22 20:56
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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: 561 GREENWICH ST **Lab Number:** L2219936

Project Number: 190043702 **Report Date:** 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-05 R
Client ID: GWFB01_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 15:15
Date Received: 04/15/22
Field Prep: Refer to COC

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	0.70	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	2.2	J	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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-05 R
Client ID: GWFB01_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 15:15
Date Received: 04/15/22
Field Prep: Refer to COC

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	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-06
Client ID: GWTB01_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 00:00
Date Received: 04/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/18/22 12:45
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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: 561 GREENWICH ST **Lab Number:** L2219936

Project Number: 190043702 **Report Date:** 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-06 Date Collected: 04/15/22 00:00

Client ID: GWTB01_041522 Date Received: 04/15/22

Sample Location: 561 GREENWICH ST 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	0.70	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	2.1	J	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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-06
Client ID: GWTB01_041522
Sample Location: 561 GREENWICH ST
Date Collected: 04/15/22 00:00
Date Received: 04/15/22
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	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/18/22 08:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1628745-5					
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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/18/22 08:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1628745-5					
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	0.70
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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/18/22 08:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1628745-5					
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	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/19/22 20:33
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,05 Batch: WG1629419-5					
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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/19/22 20:33
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,05 Batch: WG1629419-5					
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	0.70
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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/19/22 20:33
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,05 Batch: WG1629419-5					
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	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

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: WG1628745-3 WG1628745-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	99		99		70-130	0		20
Dibromochloromethane	96		100		63-130	4		20
1,1,2-Trichloroethane	97		100		70-130	3		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	95		98		70-130	3		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	94		96		70-130	2		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	94		100		54-136	6		20
1,1,2,2-Tetrachloroethane	91		99		67-130	8		20
Benzene	100		110		70-130	10		20
Toluene	100		110		70-130	10		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	100		98		64-130	2		20
Bromomethane	96		93		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

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: WG1628745-3 WG1628745-4								
Vinyl chloride	110		120		55-140	9		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	92		94		70-130	2		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	94		99		63-130	5		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	92		99		70-130	7		20
1,2,3-Trichloropropane	91		94		64-130	3		20
Acrylonitrile	88		92		70-130	4		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	87		92		58-148	6		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	91		92		63-138	1		20
Vinyl acetate	99		110		70-130	11		20
4-Methyl-2-pentanone	89		95		59-130	7		20
2-Hexanone	91		96		57-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

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: WG1628745-3 WG1628745-4								
Bromochloromethane	98		100		70-130	2		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	92		96		70-130	4		20
1,3-Dichloropropane	98		100		70-130	2		20
1,1,1,2-Tetrachloroethane	99		100		64-130	1		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	79		87		41-144	10		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	88		99		70-130	12		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	94		100		70-130	6		20
1,2,4-Trichlorobenzene	97		100		70-130	3		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	100		110		70-130	10		20
1,4-Dioxane	104		108		56-162	4		20
p-Diethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

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: WG1628745-3 WG1628745-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	93		96		59-134	3		20
trans-1,4-Dichloro-2-butene	75		80		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		99		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2219936
Report Date: 04/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG1629419-3 WG1629419-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	98		100		63-130	2		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	100		110		70-130	10		20
cis-1,3-Dichloropropene	96		98		70-130	2		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	97		100		54-136	3		20
1,1,2,2-Tetrachloroethane	98		100		67-130	2		20
Benzene	110		110		70-130	0		20
Toluene	100		110		70-130	10		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	100		100		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG1629419-3 WG1629419-4								
Vinyl chloride	120		120		55-140	0		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	92		96		70-130	4		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	94		100		64-130	6		20
Acrylonitrile	97		100		70-130	3		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	120		110		36-147	9		20
Acetone	100		110		58-148	10		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	110		110		63-138	0		20
Vinyl acetate	110		120		70-130	9		20
4-Methyl-2-pentanone	99		100		59-130	1		20
2-Hexanone	110		110		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG1629419-3 WG1629419-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	94		100		70-130	6		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	98		100		70-130	2		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	99		100		70-130	1		20
1,2-Dibromo-3-chloropropane	89		93		41-144	4		20
Hexachlorobutadiene	100		110		63-130	10		20
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	100		110		70-130	10		20
Naphthalene	98		100		70-130	2		20
n-Propylbenzene	100		110		69-130	10		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	142		136		56-162	4		20
p-Diethylbenzene	100		110		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG1629419-3 WG1629419-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	97		100		59-134	3		20
trans-1,4-Dichloro-2-butene	96		100		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	101		103		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

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: WG1628745-6 WG1628745-7 QC Sample: L2219936-01 Client ID: MW21_041522												
Methylene chloride	ND	200	180	90		210	105		70-130	15		20
1,1-Dichloroethane	ND	200	190	95		220	110		70-130	15		20
Chloroform	ND	200	180	90		200	100		70-130	11		20
Carbon tetrachloride	ND	200	200	100		230	115		63-132	14		20
1,2-Dichloropropane	ND	200	180	90		210	105		70-130	15		20
Dibromochloromethane	ND	200	180	90		210	105		63-130	15		20
1,1,2-Trichloroethane	ND	200	220	110		240	120		70-130	9		20
Tetrachloroethene	ND	200	200	100		230	115		70-130	14		20
Chlorobenzene	ND	200	180	90		210	105		75-130	15		20
Trichlorofluoromethane	ND	200	220	110		240	120		62-150	9		20
1,2-Dichloroethane	ND	200	180	90		200	100		70-130	11		20
1,1,1-Trichloroethane	ND	200	190	95		220	110		67-130	15		20
Bromodichloromethane	ND	200	190	95		210	105		67-130	10		20
trans-1,3-Dichloropropene	ND	200	190	95		220	110		70-130	15		20
cis-1,3-Dichloropropene	ND	200	170	85		190	95		70-130	11		20
1,1-Dichloropropene	ND	200	200	100		230	115		70-130	14		20
Bromoform	ND	200	190	95		220	110		54-136	15		20
1,1,2,2-Tetrachloroethane	ND	200	190	95		220	110		67-130	15		20
Benzene	340	200	530	95		550	105		70-130	4		20
Toluene	1900	200	2000	**50**	Q	2000	**50**	Q	70-130	0		20
Ethylbenzene	400	200	590	95		610	105		70-130	3		20
Chloromethane	ND	200	210	105		230	115		64-130	9		20
Bromomethane	ND	200	170	85		200	100		39-139	16		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

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: WG1628745-6 WG1628745-7 QC Sample: L2219936-01 Client ID: MW21_041522												
Vinyl chloride	ND	200	220	110		240	120		55-140	9		20
Chloroethane	ND	200	180	90		220	110		55-138	20		20
1,1-Dichloroethene	ND	200	200	100		230	115		61-145	14		20
trans-1,2-Dichloroethene	ND	200	190	95		220	110		70-130	15		20
Trichloroethene	ND	200	170	85		200	100		70-130	16		20
1,2-Dichlorobenzene	ND	200	190	95		210	105		70-130	10		20
1,3-Dichlorobenzene	ND	200	190	95		210	105		70-130	10		20
1,4-Dichlorobenzene	ND	200	180	90		200	100		70-130	11		20
Methyl tert butyl ether	ND	200	210	105		240	120		63-130	13		20
p/m-Xylene	2200	400	2600	100		2500	75		70-130	4		20
o-Xylene	1000	400	1400	100		1400	100		70-130	0		20
cis-1,2-Dichloroethene	ND	200	180	90		200	100		70-130	11		20
Dibromomethane	ND	200	180	90		210	105		70-130	15		20
1,2,3-Trichloropropane	ND	200	200	100		230	115		64-130	14		20
Acrylonitrile	ND	200	420	**210**	Q	460	**230**	Q	70-130	9		20
Styrene	ND	400	380	95		440	110		70-130	15		20
Dichlorodifluoromethane	ND	200	220	110		250	125		36-147	13		20
Acetone	100	200	240	70		260	80		58-148	8		20
Carbon disulfide	ND	200	200	100		220	110		51-130	10		20
2-Butanone	ND	200	320	**160**	Q	350	**175**	Q	63-138	9		20
Vinyl acetate	ND	200	200	100		240	120		70-130	18		20
4-Methyl-2-pentanone	ND	200	200	100		240	120		59-130	18		20
2-Hexanone	ND	200	210	105		240	120		57-130	13		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

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: WG1628745-6 WG1628745-7 QC Sample: L2219936-01 Client ID: MW21_041522												
Bromochloromethane	ND	200	180	90		210	105		70-130	15		20
2,2-Dichloropropane	ND	200	180	90		210	105		63-133	15		20
1,2-Dibromoethane	ND	200	180	90		200	100		70-130	11		20
1,3-Dichloropropane	ND	200	190	95		220	110		70-130	15		20
1,1,1,2-Tetrachloroethane	ND	200	180	90		210	105		64-130	15		20
Bromobenzene	ND	200	180	90		210	105		70-130	15		20
n-Butylbenzene	ND	200	220	110		250	125		53-136	13		20
sec-Butylbenzene	ND	200	210	105		240	120		70-130	13		20
tert-Butylbenzene	ND	200	190	95		220	110		70-130	15		20
o-Chlorotoluene	ND	200	180	90		210	105		70-130	15		20
p-Chlorotoluene	ND	200	180	90		200	100		70-130	11		20
1,2-Dibromo-3-chloropropane	ND	200	170	85		200	100		41-144	16		20
Hexachlorobutadiene	ND	200	190	95		220	110		63-130	15		20
Isopropylbenzene	56	200	250	97		280	112		70-130	11		20
p-Isopropyltoluene	ND	200	220	110		250	125		70-130	13		20
Naphthalene	130	200	330	100		370	120		70-130	11		20
n-Propylbenzene	140	200	340	100		370	115		69-130	8		20
1,2,3-Trichlorobenzene	ND	200	190	95		220	110		70-130	15		20
1,2,4-Trichlorobenzene	ND	200	190	95		220	110		70-130	15		20
1,3,5-Trimethylbenzene	310	200	500	95		520	105		64-130	4		20
1,2,4-Trimethylbenzene	1100	200	1300	100		1300	100		70-130	0		20
1,4-Dioxane	ND	10000	12000	120		15000	150		56-162	**22**	Q	20
p-Diethylbenzene	140	200	340	100		370	115		70-130	8		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

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: WG1628745-6 WG1628745-7 QC Sample: L2219936-01 Client ID: MW21_041522												
p-Ethyltoluene	960	200	1200	120		1100	70		70-130	9		20
1,2,4,5-Tetramethylbenzene	57	200	250	96		280	112		70-130	11		20
Ethyl ether	ND	200	180	90		200	100		59-134	11		20
trans-1,4-Dichloro-2-butene	ND	200	170	85		200	100		70-130	16		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		107		70-130
4-Bromofluorobenzene	103		101		70-130
Dibromofluoromethane	99		99		70-130
Toluene-d8	100		100		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-01
Client ID: MW21_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 16:20
Date Received: 04/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	85.		mg/l	50	6.8	5	04/20/22 10:57	04/20/22 10:57	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-02
Client ID: MW22_041522
Sample Location: 561 GREENWICH ST
Sample Depth:
Matrix: Water

Date Collected: 04/15/22 16:15
Date Received: 04/15/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	160		mg/l	50	6.8	5	04/20/22 10:57	04/20/22 10:57	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-03
Client ID: MW23_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 10:30
Date Received: 04/15/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	780		mg/l	500	68.	50	04/20/22 10:57	04/20/22 10:57	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-04
Client ID: GWDUP01_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 00:00
Date Received: 04/15/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	800		mg/l	500	68.	50	04/20/22 10:57	04/20/22 10:57	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2219936
Report Date: 04/21/22

SAMPLE RESULTS

Lab ID: L2219936-05
Client ID: GWFB01_041522
Sample Location: 561 GREENWICH ST

Date Collected: 04/15/22 15:15
Date Received: 04/15/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	ND		mg/l	10	1.4	1	04/20/22 10:57	04/20/22 10:57	1,9038	MC

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2219936
Report Date: 04/21/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1628608-1										
Sulfate	ND		mg/l	10	1.4	1	04/20/22 10:57	04/20/22 10:57	1,9038	MC

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1628608-2								
Sulfate	105		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2219936
Report Date: 04/21/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1628608-4 QC Sample: L2219936-01 Client ID: MW21_041522												
Sulfate	85.	250	360	108		-	-		55-147	-		14

Lab Duplicate Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2219936

Report Date: 04/21/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1628608-3 QC Sample: L2219936-01 Client ID: MW21_041522						
Sulfate	85.	85	mg/l	0		14

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2219936
Report Date: 04/21/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2219936-01A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-01A1	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-01A2	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-01B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-01B1	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-01B2	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-01C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-01C1	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-01C2	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-01D	Plastic 120ml unpreserved	A	7	7	2.8	Y	Absent		FILTER(1)
L2219936-01D1	Plastic 120ml unpreserved	A	7	7	2.8	Y	Absent		FILTER(1)
L2219936-01D2	Plastic 120ml unpreserved	A	7	7	2.8	Y	Absent		FILTER(1)
L2219936-01E	Plastic 250ml unpreserved Filtrates	A	N/A	N/A	2.8	Y	Absent		SO4-9038(28)
L2219936-01E1	Plastic 250ml unpreserved Filtrates	A	N/A	N/A	2.8	Y	Absent		SO4-9038(28)
L2219936-01E2	Plastic 250ml unpreserved Filtrates	A	N/A	N/A	2.8	Y	Absent		SO4-9038(28)
L2219936-02A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-02B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-02C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-02D	Plastic 120ml unpreserved	A	7	7	2.8	Y	Absent		SO4-9038(28)
L2219936-03A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-03B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-03C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-03D	Plastic 120ml unpreserved	A	9	9	2.8	Y	Absent		SO4-9038(28)

*Values in parentheses indicate holding time in days

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2219936
Report Date: 04/21/22

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2219936-04A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-04B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-04C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-04D	Plastic 120ml unpreserved	A	9	9	2.8	Y	Absent		SO4-9038(28)
L2219936-05A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-05B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-05C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-05D	Plastic 120ml unpreserved	A	7	7	2.8	Y	Absent		SO4-9038(28)
L2219936-06A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2219936-06B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	561 GREENWICH ST	**Lab Number:**	L2219936
Project Number:	190043702	**Report Date:**	04/21/22

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:	561 GREENWICH ST	**Lab Number:**	L2219936
Project Number:	190043702	**Report Date:**	04/21/22

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.

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'.

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.

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.)

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 Identified Compounds (TICs).

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	561 GREENWICH ST	**Lab Number:**	L2219936
Project Number:	190043702	**Report Date:**	04/21/22

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
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.
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 332: Perchlorate; **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), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, 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.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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: 4/16/22

ALPHA Job #: L2219936

Client Information
Client: Langan Engineering
Address: 30 W 31st St NY, NY
Phone: 212 479 5300
Fax:
Email: EAdkins@Langan.com

Project Information
Project Name: 561 Greenwich st
Project Location: 561 Greenwich St
Project #: 190143702
(Use Project name as Project #) ☐
Project Manager: E. Adkins
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
cc datamanagement@Langan.com

Please specify Metals or TAL.

ANALYSIS
TCL Volatiles, BTEX
Sulfate SM4500

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL Volatiles, BTEX	Sulfate SM4500	Sample Specific Comments	Total Bottle
19936-01	MW21_041522	04/15/22	16:20	GW	DA	X	X	MS/MSD *	12
-02	MW22_041522		16:15	GW	DA	X	X		4
-03	MW23_041522		10:30	GW	DA	X	X		4
-04	GW DUP01_041522		-	GW	DA	X	X		4
-05	GW FB01_041522		15:15	W	DA	X	X		4
-06	~~Trip Blank~~ GW TB01_041522		16:30	W	DA	X			2

* Lab to filter sulphate on MW21_041522

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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								
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
Sveva Simeon	4/15/22 16:40	MS/MSD	4/15/22 16:40
MS/MSD	4/15/22 19:17	Fedex Ground	4/15/22 2000
Fedex Ground	4/15/22		4/15/22 2233
	4/16/22 0120		4/16/22 0120

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2239801
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Elizabeth Adkins
Phone:	(212) 479-5400
Project Name:	561 GREENWICH ST.
Project Number:	190043702
Report Date:	08/01/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2239801-01	MW22_072622	WATER	561 GREENWICH ST. NY, NY	07/26/22 12:15	07/26/22
L2239801-02	MW23_072622	WATER	561 GREENWICH ST. NY, NY	07/26/22 12:10	07/26/22
L2239801-03	DUP01_072622	WATER	561 GREENWICH ST. NY, NY	07/26/22 00:00	07/26/22
L2239801-04	FB01_072622	WATER	561 GREENWICH ST. NY, NY	07/26/22 12:30	07/26/22
L2239801-05	TB01_072622	WATER	561 GREENWICH ST. NY, NY	07/26/22 00:00	07/26/22

Project Name:	561 GREENWICH ST.	**Lab Number:**	L2239801
Project Number:	190043702	**Report Date:**	08/01/22

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:	561 GREENWICH ST.	**Lab Number:**	L2239801
Project Number:	190043702	**Report Date:**	08/01/22

Case Narrative (continued)

Report Submission

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

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 08/01/22

ORGANICS

VOLATILES

Project Name: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-01
Client ID: MW22_072622
Sample Location: 561 GREENWICH ST. NY, NY

Date Collected: 07/26/22 12:15
Date Received: 07/26/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/28/22 09:18
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	1.5		ug/l	0.50	0.16	1
Toluene	1.5	J	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	0.85	J	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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-01 Date Collected: 07/26/22 12:15

Client ID: MW22_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	0.70	1
p/m-Xylene	0.80	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	0.80	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	24		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	6.1		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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-01 Date Collected: 07/26/22 12:15

Client ID: MW22_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	102		70-130

Project Name: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-02 Date Collected: 07/26/22 12:10
Client ID: MW23_072622 Date Received: 07/26/22
Sample Location: 561 GREENWICH ST. NY, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/28/22 21:18
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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	6.8		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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-02 Date Collected: 07/26/22 12:10

Client ID: MW23_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	0.70	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	46		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	23		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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-02 Date Collected: 07/26/22 12:10

Client ID: MW23_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	95		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	112		70-130

Project Name: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-03
Client ID: DUP01_072622
Sample Location: 561 GREENWICH ST. NY, NY

Date Collected: 07/26/22 00:00
Date Received: 07/26/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/28/22 09:44
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-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	0.92	J	ug/l	2.5	0.70	1
Bromomethane	4.7		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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-03 Date Collected: 07/26/22 00:00

Client ID: DUP01_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	0.70	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	22		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	20		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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-03 Date Collected: 07/26/22 00:00

Client ID: DUP01_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	102		70-130

Project Name: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-04 Date Collected: 07/26/22 12:30

Client ID: FB01_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 07/28/22 08:24

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	0.82	J	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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-04 Date Collected: 07/26/22 12:30

Client ID: FB01_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	0.70	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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-04 Date Collected: 07/26/22 12:30

Client ID: FB01_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	102		70-130

Project Name: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-05
Client ID: TB01_072622
Sample Location: 561 GREENWICH ST. NY, NY

Date Collected: 07/26/22 00:00
Date Received: 07/26/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/28/22 08:51
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	0.76	J	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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-05 Date Collected: 07/26/22 00:00

Client ID: TB01_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	0.70	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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-05 Date Collected: 07/26/22 00:00

Client ID: TB01_072622 Date Received: 07/26/22

Sample Location: 561 GREENWICH ST. NY, NY 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	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	104		70-130

Project Name: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/28/22 04:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG1668615-5					
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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/28/22 04:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG1668615-5					
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	0.70
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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/28/22 04:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG1668615-5					
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	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	106		70-130

Project Name: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/28/22 19:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1668961-5					
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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/28/22 19:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1668961-5					
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	0.70
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: 561 GREENWICH ST. **Lab Number:** L2239801

Project Number: 190043702 **Report Date:** 08/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/28/22 19:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1668961-5					
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	94		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST.

Project Number: 190043702

Lab Number: L2239801

Report Date: 08/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1668615-3 WG1668615-4								
Methylene chloride	100		96		70-130	4		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	95		96		70-130	1		20
Dibromochloromethane	96		97		63-130	1		20
1,1,2-Trichloroethane	97		98		70-130	1		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	96		95		70-130	1		20
1,1,1-Trichloroethane	99		100		67-130	1		20
Bromodichloromethane	95		94		67-130	1		20
trans-1,3-Dichloropropene	95		94		70-130	1		20
cis-1,3-Dichloropropene	98		98		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	96		98		54-136	2		20
1,1,2,2-Tetrachloroethane	89		92		67-130	3		20
Benzene	100		100		70-130	0		20
Toluene	99		99		70-130	0		20
Ethylbenzene	98		99		70-130	1		20
Chloromethane	98		93		64-130	5		20
Bromomethane	**140**	Q	130		39-139	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST.

Project Number: 190043702

Lab Number: L2239801

Report Date: 08/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1668615-3 WG1668615-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	99		100		70-130	1		20
1,2-Dichlorobenzene	95		97		70-130	2		20
1,3-Dichlorobenzene	96		97		70-130	1		20
1,4-Dichlorobenzene	96		98		70-130	2		20
Methyl tert butyl ether	95		94		63-130	1		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	94		92		70-130	2		20
1,2,3-Trichloropropane	88		90		64-130	2		20
Acrylonitrile	98		94		70-130	4		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	99		95		36-147	4		20
Acetone	84		92		58-148	9		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	90		90		63-138	0		20
Vinyl acetate	120		120		70-130	0		20
4-Methyl-2-pentanone	83		86		59-130	4		20
2-Hexanone	87		86		57-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST.

Project Number: 190043702

Lab Number: L2239801

Report Date: 08/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1668615-3 WG1668615-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	93		96		70-130	3		20
1,3-Dichloropropane	95		94		70-130	1		20
1,1,1,2-Tetrachloroethane	98		100		64-130	2		20
Bromobenzene	91		95		70-130	4		20
n-Butylbenzene	99		100		53-136	1		20
sec-Butylbenzene	97		98		70-130	1		20
tert-Butylbenzene	96		98		70-130	2		20
o-Chlorotoluene	94		97		70-130	3		20
p-Chlorotoluene	94		95		70-130	1		20
1,2-Dibromo-3-chloropropane	88		90		41-144	2		20
Hexachlorobutadiene	100		100		63-130	0		20
Isopropylbenzene	94		96		70-130	2		20
p-Isopropyltoluene	99		100		70-130	1		20
Naphthalene	88		91		70-130	3		20
n-Propylbenzene	98		100		69-130	2		20
1,2,3-Trichlorobenzene	96		96		70-130	0		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	96		98		64-130	2		20
1,2,4-Trimethylbenzene	96		98		70-130	2		20
1,4-Dioxane	98		88		56-162	11		20
p-Diethylbenzene	97		99		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1668615-3 WG1668615-4								
p-Ethyltoluene	97		100		70-130	3		20
1,2,4,5-Tetramethylbenzene	92		94		70-130	2		20
Ethyl ether	99		97		59-134	2		20
trans-1,4-Dichloro-2-butene	89		89		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		93		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	92		92		70-130
Dibromofluoromethane	98		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1668961-3 WG1668961-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	97		97		70-130	0		20
Chloroform	95		93		70-130	2		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	90		89		70-130	1		20
Dibromochloromethane	88		89		63-130	1		20
1,1,2-Trichloroethane	82		85		70-130	4		20
Tetrachloroethene	100		99		70-130	1		20
Chlorobenzene	99		99		75-130	0		20
Trichlorofluoromethane	64		63		62-150	2		20
1,2-Dichloroethane	98		100		70-130	2		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	94		94		67-130	0		20
trans-1,3-Dichloropropene	83		85		70-130	2		20
cis-1,3-Dichloropropene	87		88		70-130	1		20
1,1-Dichloropropene	95		96		70-130	1		20
Bromoform	77		81		54-136	5		20
1,1,2,2-Tetrachloroethane	87		92		67-130	6		20
Benzene	92		92		70-130	0		20
Toluene	92		92		70-130	0		20
Ethylbenzene	94		93		70-130	1		20
Chloromethane	110		100		64-130	10		20
Bromomethane	**33**	Q	**31**	Q	39-139	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1668961-3 WG1668961-4								
Vinyl chloride	89		83		55-140	7		20
Chloroethane	56		**54**	Q	55-138	4		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	89		89		70-130	0		20
1,2-Dichlorobenzene	97		98		70-130	1		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	98		98		70-130	0		20
Methyl tert butyl ether	94		100		63-130	6		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	87		88		70-130	1		20
1,2,3-Trichloropropane	78		84		64-130	7		20
Acrylonitrile	97		100		70-130	3		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	90		88		36-147	2		20
Acetone	99		110		58-148	11		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	94		110		63-138	16		20
Vinyl acetate	**140**	Q	**150**	Q	70-130	7		20
4-Methyl-2-pentanone	75		84		59-130	11		20
2-Hexanone	88		99		57-130	12		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1668961-3 WG1668961-4								
Bromochloromethane	120		120		70-130	0		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	92		99		70-130	7		20
1,3-Dichloropropane	85		89		70-130	5		20
1,1,1,2-Tetrachloroethane	95		98		64-130	3		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	97		96		53-136	1		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	99		99		70-130	0		20
p-Chlorotoluene	98		96		70-130	2		20
1,2-Dibromo-3-chloropropane	80		86		41-144	7		20
Hexachlorobutadiene	94		95		63-130	1		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	87		94		70-130	8		20
n-Propylbenzene	100		98		69-130	2		20
1,2,3-Trichlorobenzene	88		93		70-130	6		20
1,2,4-Trichlorobenzene	92		95		70-130	3		20
1,3,5-Trimethylbenzene	99		100		64-130	1		20
1,2,4-Trimethylbenzene	98		100		70-130	2		20
1,4-Dioxane	100		102		56-162	2		20
p-Diethylbenzene	99		99		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST.

Project Number: 190043702

Lab Number: L2239801

Report Date: 08/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1668961-3 WG1668961-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	92		94		70-130	2		20
Ethyl ether	60		65		59-134	8		20
trans-1,4-Dichloro-2-butene	82		80		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		93		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	100		97		70-130
Dibromofluoromethane	104		102		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-01
Client ID: MW22_072622
Sample Location: 561 GREENWICH ST. NY, NY

Date Collected: 07/26/22 12:15
Date Received: 07/26/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	300		mg/l	100	14.	10	07/28/22 11:04	07/28/22 11:04	1,9038	KH

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-02
Client ID: MW23_072622
Sample Location: 561 GREENWICH ST. NY, NY

Date Collected: 07/26/22 12:10
Date Received: 07/26/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	710		mg/l	250	34.	25	07/28/22 11:04	07/28/22 11:04	1,9038	KH

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-03
Client ID: DUP01_072622
Sample Location: 561 GREENWICH ST. NY, NY

Date Collected: 07/26/22 00:00
Date Received: 07/26/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	720		mg/l	250	34.	25	07/28/22 11:04	07/28/22 11:04	1,9038	KH

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

SAMPLE RESULTS

Lab ID: L2239801-04
Client ID: FB01_072622
Sample Location: 561 GREENWICH ST. NY, NY

Date Collected: 07/26/22 12:30
Date Received: 07/26/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	ND		mg/l	10	1.4	1	07/28/22 11:04	07/28/22 11:04	1,9038	KH

Project Name: 561 GREENWICH ST.
Project Number: 190043702
Lab Number: L2239801
Report Date: 08/01/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1668400-1										
Sulfate	ND		mg/l	10	1.4	1	07/28/22 11:04	07/28/22 11:04	1,9038	KH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST.

Project Number: 190043702

Lab Number: L2239801

Report Date: 08/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1668400-2								
Sulfate	105		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1668400-4 QC Sample: L2238669-01 Client ID: MS Sample												
Sulfate	11.	40	51	100		-	-		55-147	-		14

Lab Duplicate Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST.

Project Number: 190043702

Lab Number: L2239801

Report Date: 08/01/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1668400-3 QC Sample: L2238669-01 Client ID: DUP Sample						
Sulfate	11.	11	mg/l	0		14

Project Name: 561 GREENWICH ST.
Project Number: 190043702

Lab Number: L2239801
Report Date: 08/01/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2239801-01A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-01B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-01C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-01D	Plastic 120ml unpreserved	A	10	10	3.9	Y	Absent		SO4-9038(28)
L2239801-02A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-02B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-02C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-02D	Plastic 120ml unpreserved	A	10	10	3.9	Y	Absent		SO4-9038(28)
L2239801-03A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-03B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-03C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-03D	Plastic 120ml unpreserved	A	10	10	3.9	Y	Absent		SO4-9038(28)
L2239801-04A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-04B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-04C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-04D	Plastic 120ml unpreserved	A	10	10	3.9	Y	Absent		SO4-9038(28)
L2239801-05A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2239801-05B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	561 GREENWICH ST.	**Lab Number:**	L2239801
Project Number:	190043702	**Report Date:**	08/01/22

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:	561 GREENWICH ST.	**Lab Number:**	L2239801
Project Number:	190043702	**Report Date:**	08/01/22

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

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Project Number:	190043702	**Report Date:**	08/01/22

Data Qualifiers

Identified Compounds (TICs).

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	561 GREENWICH ST.	**Lab Number:**	L2239801
Project Number:	190043702	**Report Date:**	08/01/22

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
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.
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 332: Perchlorate; **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), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, 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.

ALPHA ANALYTICAL

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 | of

Date Rec'd in Lab: 7/26/22

ALPHA Job #: L2239801

Client Information
Client: LANGAN Engineering
Address: 360 W 31st St.
New York, NY 10001
Phone: 212-479-5400
Fax:
Email: eadkins@langan.com

Project Information
Project Name: 561 Greenwich St.
Project Location: 561 Greenwich St. NY, NY
Project # 190043702
(Use Project name as Project #) ☐
Project Manager: Elizabeth Adkins
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please cc: igrose@langan.com, datamanagement@langan.com

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375/TCL VOCs	Sulfate	Total Bottle	Sample Specific Comments
39801-01	MW22-072622	7/26/22	12:15	W	LM	X	X		
-02	MW23-072622		12:10			X	X		
-03	DUP01-072622		—			X	X		
-04	FB01-072622		12:30			X	X		
-05	TB01-072622		13:00		TR	X			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	7/26/22 1324		7/26/22 1324
	7/26/22 1720		7/26 1430
	7/26 2115		7/26 2335
	7/26 2335		7/26/22 2335

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2240044
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Elizabeth Adkins
Phone:	(212) 479-5400
Project Name:	561 GREENWICH ST
Project Number:	190043702
Report Date:	08/02/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2240044
Report Date: 08/02/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2240044-01	MW21_072722	WATER	561 GREENWICH ST, NY, NY	07/27/22 06:10	07/27/22

Project Name:	561 GREENWICH ST	**Lab Number:**	L2240044
Project Number:	190043702	**Report Date:**	08/02/22

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:	561 GREENWICH ST	**Lab Number:**	L2240044
Project Number:	190043702	**Report Date:**	08/02/22

Case Narrative (continued)

Report Submission

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

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 08/02/22

ORGANICS

VOLATILES

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2240044
Report Date: 08/02/22

SAMPLE RESULTS

Lab ID: L2240044-01 D
Client ID: MW21_072722
Sample Location: 561 GREENWICH ST, NY, NY

Date Collected: 07/27/22 06:10
Date Received: 07/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/01/22 15:55
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,3-Dichloropropene, Total	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	440		ug/l	5.0	1.6	10
Toluene	1000		ug/l	25	7.0	10
Ethylbenzene	55		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: 561 GREENWICH ST **Lab Number:** L2240044

Project Number: 190043702 **Report Date:** 08/02/22

SAMPLE RESULTS

Lab ID: L2240044-01 D Date Collected: 07/27/22 06:10

Client ID: MW21_072722 Date Received: 07/27/22

Sample Location: 561 GREENWICH ST, NY, NY 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	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	14	J	ug/l	25	7.0	10
p/m-Xylene	720		ug/l	25	7.0	10
o-Xylene	500		ug/l	25	7.0	10
Xylenes, Total	1200		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
1,2-Dichloroethene, Total	ND		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	170		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	52		ug/l	50	19.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	11	J	ug/l	50	10.	10
2-Hexanone	200		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	46		ug/l	25	7.0	10

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2240044
Report Date: 08/02/22

SAMPLE RESULTS

Lab ID: L2240044-01 D
Client ID: MW21_072722
Sample Location: 561 GREENWICH ST, NY, NY
Date Collected: 07/27/22 06:10
Date Received: 07/27/22
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	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	37		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	140		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	14	J	ug/l	20	7.0	10
p-Ethyltoluene	87		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	7.2	J	ug/l	20	5.4	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2240044
Report Date: 08/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/01/22 08:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1670009-5					
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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2240044
Report Date: 08/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/01/22 08:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1670009-5					
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	0.70
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	1.6	J	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: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2240044
Report Date: 08/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/01/22 08:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1670009-5					
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	113		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2240044

Report Date: 08/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1670009-3 WG1670009-4								
Methylene chloride	96		98		70-130	2		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	96		99		63-132	3		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	85		88		63-130	3		20
1,1,2-Trichloroethane	94		100		70-130	6		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		99		67-130	1		20
trans-1,3-Dichloropropene	84		88		70-130	5		20
cis-1,3-Dichloropropene	86		90		70-130	5		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	72		78		54-136	8		20
1,1,2,2-Tetrachloroethane	89		96		67-130	8		20
Benzene	100		110		70-130	10		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		110		70-130	10		20
Chloromethane	100		110		64-130	10		20
Bromomethane	93		96		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2240044

Report Date: 08/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1670009-3 WG1670009-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	100		110		55-138	10		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
Methyl tert butyl ether	87		92		63-130	6		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	97		96		70-130	1		20
1,2,3-Trichloropropane	90		96		64-130	6		20
Acrylonitrile	83		98		70-130	17		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	110		100		58-148	10		20
Carbon disulfide	110		120		51-130	9		20
2-Butanone	92		110		63-138	18		20
Vinyl acetate	100		110		70-130	10		20
4-Methyl-2-pentanone	81		89		59-130	9		20
2-Hexanone	76		82		57-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2240044
Report Date: 08/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1670009-3 WG1670009-4								
Bromochloromethane	98		100		70-130	2		20
2,2-Dichloropropane	96		98		63-133	2		20
1,2-Dibromoethane	95		100		70-130	5		20
1,3-Dichloropropane	93		100		70-130	7		20
1,1,1,2-Tetrachloroethane	93		99		64-130	6		20
Bromobenzene	97		100		70-130	3		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		110		70-130	10		20
o-Chlorotoluene	100		110		70-130	10		20
p-Chlorotoluene	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	73		83		41-144	13		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	100		110		70-130	10		20
Naphthalene	83		90		70-130	8		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	94		100		70-130	6		20
1,2,4-Trichlorobenzene	97		100		70-130	3		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	99		100		70-130	1		20
1,4-Dioxane	94		96		56-162	2		20
p-Diethylbenzene	100		110		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2240044

Report Date: 08/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1670009-3 WG1670009-4								
p-Ethyltoluene	100		110		70-130	10		20
1,2,4,5-Tetramethylbenzene	96		100		70-130	4		20
Ethyl ether	96		110		59-134	14		20
trans-1,4-Dichloro-2-butene	84		97		70-130	14		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		111		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	99		99		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2240044

Report Date: 08/02/22

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 QC Batch ID: WG1670009-6 WG1670009-7 QC Sample: L2240044-01 Client ID: MW21_072722												
Methylene chloride	ND	100	100	100		110	110		70-130	10		20
1,1-Dichloroethane	ND	100	110	110		120	120		70-130	9		20
Chloroform	ND	100	100	100		120	120		70-130	18		20
Carbon tetrachloride	ND	100	86	86		100	100		63-132	15		20
1,2-Dichloropropane	ND	100	100	100		120	120		70-130	18		20
Dibromochloromethane	ND	100	85	85		94	94		63-130	10		20
1,1,2-Trichloroethane	ND	100	100	100		110	110		70-130	10		20
Tetrachloroethene	ND	100	98	98		110	110		70-130	12		20
Chlorobenzene	ND	100	98	98		110	110		75-130	12		20
Trichlorofluoromethane	ND	100	110	110		130	130		62-150	17		20
1,2-Dichloroethane	ND	100	120	120		130	130		70-130	8		20
1,1,1-Trichloroethane	ND	100	99	99		120	120		67-130	19		20
Bromodichloromethane	ND	100	95	95		100	100		67-130	5		20
trans-1,3-Dichloropropene	ND	100	81	81		90	90		70-130	11		20
cis-1,3-Dichloropropene	ND	100	82	82		94	94		70-130	14		20
1,1-Dichloropropene	ND	100	110	110		120	120		70-130	9		20
Bromoform	ND	100	76	76		86	86		54-136	12		20
1,1,2,2-Tetrachloroethane	ND	100	110	110		120	120		67-130	9		20
Benzene	440	100	540	100		560	120		70-130	4		20
Toluene	1000	100	1100	100		1100	100		70-130	0		20
Ethylbenzene	55	100	150	95		160	105		70-130	6		20
Chloromethane	ND	100	91	91		100	100		64-130	9		20
Bromomethane	ND	100	58	58		73	73		39-139	**23**	Q	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2240044

Report Date: 08/02/22

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 QC Batch ID: WG1670009-6 WG1670009-7 QC Sample: L2240044-01 Client ID: MW21_072722												
Vinyl chloride	ND	100	110	110		120	120		55-140	9		20
Chloroethane	ND	100	120	120		140	**140**	Q	55-138	15		20
1,1-Dichloroethene	ND	100	110	110		120	120		61-145	9		20
trans-1,2-Dichloroethene	ND	100	100	100		120	120		70-130	18		20
Trichloroethene	ND	100	99	99		120	120		70-130	19		20
1,2-Dichlorobenzene	ND	100	96	96		110	110		70-130	14		20
1,3-Dichlorobenzene	ND	100	96	96		110	110		70-130	14		20
1,4-Dichlorobenzene	ND	100	95	95		110	110		70-130	15		20
Methyl tert butyl ether	14J	100	120	120		130	130		63-130	8		20
p/m-Xylene	720	200	900	90		940	110		70-130	4		20
o-Xylene	500	200	690	95		720	110		70-130	4		20
cis-1,2-Dichloroethene	ND	100	100	100		110	110		70-130	10		20
Dibromomethane	ND	100	100	100		110	110		70-130	10		20
1,2,3-Trichloropropane	ND	100	110	110		120	120		64-130	9		20
Acrylonitrile	ND	100	180	**180**	Q	200	**200**	Q	70-130	11		20
Styrene	ND	200	200	100		220	110		70-130	10		20
Dichlorodifluoromethane	ND	100	110	110		130	130		36-147	17		20
Acetone	170	100	290	120		300	130		58-148	3		20
Carbon disulfide	ND	100	110	110		120	120		51-130	9		20
2-Butanone	52	100	180	128		200	**148**	Q	63-138	11		20
Vinyl acetate	ND	100	120	120		130	130		70-130	8		20
4-Methyl-2-pentanone	11J	100	130	130		130	130		59-130	0		20
2-Hexanone	200	100	320	120		320	120		57-130	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2240044

Report Date: 08/02/22

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 QC Batch ID: WG1670009-6 WG1670009-7 QC Sample: L2240044-01 Client ID: MW21_072722												
Bromochloromethane	ND	100	100	100		120	120		70-130	18		20
2,2-Dichloropropane	ND	100	77	77		89	89		63-133	14		20
1,2-Dibromoethane	ND	100	100	100		110	110		70-130	10		20
1,3-Dichloropropane	ND	100	100	100		110	110		70-130	10		20
1,1,1,2-Tetrachloroethane	ND	100	90	90		99	99		64-130	10		20
Bromobenzene	ND	100	94	94		100	100		70-130	6		20
n-Butylbenzene	ND	100	96	96		110	110		53-136	14		20
sec-Butylbenzene	ND	100	96	96		110	110		70-130	14		20
tert-Butylbenzene	ND	100	94	94		110	110		70-130	16		20
o-Chlorotoluene	ND	100	110	110		120	120		70-130	9		20
p-Chlorotoluene	ND	100	96	96		110	110		70-130	14		20
1,2-Dibromo-3-chloropropane	ND	100	87	87		95	95		41-144	9		20
Hexachlorobutadiene	ND	100	90	90		110	110		63-130	20		20
Isopropylbenzene	ND	100	100	100		120	120		70-130	18		20
p-Isopropyltoluene	ND	100	96	96		110	110		70-130	14		20
Naphthalene	46	100	150	104		150	104		70-130	0		20
n-Propylbenzene	ND	100	100	100		120	120		69-130	18		20
1,2,3-Trichlorobenzene	ND	100	94	94		110	110		70-130	16		20
1,2,4-Trichlorobenzene	ND	100	93	93		100	100		70-130	7		20
1,3,5-Trimethylbenzene	37	100	130	93		140	103		64-130	7		20
1,2,4-Trimethylbenzene	140	100	240	100		250	110		70-130	4		20
1,4-Dioxane	ND	5000	4000	80		4900	98		56-162	20		20
p-Diethylbenzene	14J	100	110	110		120	120		70-130	9		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2240044

Report Date: 08/02/22

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 QC Batch ID: WG1670009-6 WG1670009-7 QC Sample: L2240044-01 Client ID: MW21_072722												
p-Ethyltoluene	87	100	180	93		200	113		70-130	11		20
1,2,4,5-Tetramethylbenzene	7.2J	100	98	98		110	110		70-130	12		20
Ethyl ether	ND	100	110	110		120	120		59-134	9		20
trans-1,4-Dichloro-2-butene	ND	100	85	85		92	92		70-130	8		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		120		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	100		103		70-130
Toluene-d8	96		98		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2240044
Report Date: 08/02/22

SAMPLE RESULTS

Lab ID: L2240044-01
Client ID: MW21_072722
Sample Location: 561 GREENWICH ST, NY, NY
Sample Depth:
Matrix: Water

Date Collected: 07/27/22 06:10
Date Received: 07/27/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	200		mg/l	100	14.	10	07/28/22 12:57	07/28/22 12:57	1,9038	KH

Project Name: 561 GREENWICH ST
Project Number: 190043702
Lab Number: L2240044
Report Date: 08/02/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1668571-1										
Sulfate	ND		mg/l	10	1.4	1	07/28/22 12:57	07/28/22 12:57	1,9038	KH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2240044

Report Date: 08/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1668571-2								
Sulfate	105		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2240044
Report Date: 08/02/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1668571-4 QC Sample: L2240044-01 Client ID: MW21_072722												
Sulfate	200	500	670	94		-	-		55-147	-		14

Lab Duplicate Analysis

Batch Quality Control

Project Name: 561 GREENWICH ST

Project Number: 190043702

Lab Number: L2240044

Report Date: 08/02/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1668571-3 QC Sample: L2240044-01 Client ID: MW21_072722						
Sulfate	200	190	mg/l	5		14

Project Name: 561 GREENWICH ST
Project Number: 190043702

Lab Number: L2240044
Report Date: 08/02/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2240044-01A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2240044-01A1	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2240044-01A2	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2240044-01B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2240044-01B1	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2240044-01B2	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2240044-01C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2240044-01C1	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2240044-01C2	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2240044-01D	Plastic 120ml unpreserved	A	7	7	3.3	Y	Absent		SO4-9038(28)
L2240044-01D1	Plastic 120ml unpreserved	A	7	7	3.3	Y	Absent		SO4-9038(28)
L2240044-01D2	Plastic 120ml unpreserved	A	7	7	3.3	Y	Absent		SO4-9038(28)

*Values in parentheses indicate holding time in days

Project Name:	561 GREENWICH ST	**Lab Number:**	L2240044
Project Number:	190043702	**Report Date:**	08/02/22

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:	561 GREENWICH ST	**Lab Number:**	L2240044
Project Number:	190043702	**Report Date:**	08/02/22

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

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Project Number:	190043702	**Report Date:**	08/02/22

Data Qualifiers

Identified Compounds (TICs).

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	561 GREENWICH ST	**Lab Number:**	L2240044
Project Number:	190043702	**Report Date:**	08/02/22

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
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.
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 332: Perchlorate; **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), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, 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.

ALPHA ANALYTICAL

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

NEW YORK CHAIN OF CUSTODY

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: 7/27/22

ALPHA Job #: L2240044

Client Information
Client: LANGAN
Address: 360 W31st St.
New York NY 10001
Phone: 212-479-5400
Fax:
Email: eadkins@langan.com

Project Information
Project Name: 561 Greenwich St.
Project Location: 561 Greenwich St. NY NY
Project # 190043702
(Use Project name as Project #) ☐
Project Manager: Elizabeth Adkins
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please cc: lgrose@langan.com, datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☒ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375/TCL VOCs	Sulfate	Sample Specific Comments	Total Bottle
40044-01	MW21-072722	7/27	6:10	W	LM	X	X	MS/MSD	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	7:30 7/27/22	AAL	7-27-22 0730
	7-27-22 1540	Paul Mazzella	7/27/22 1640
Paul Mazzella	7/27/22 2cc		
	7/27/22 2cc		7/27/22 22:00

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)