Periodic Review Report

229 HOMER STREET SITE
NYSDEC SITE NUMBER C905044
OLEAN, NEW YORK

April 2023
Revised June 2023

0311-018-001

Prepared For:

Homer Street Properties, LLC

Prepared By:

BENCHMARK

In Association With:

TURNKEY ENVIRONMENTAL RESTORATION, LLC

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PERIODIC REVIEW REPORT

229 HOMER STREET REDEVELOPMENT SITE
BCP SITE NO. C905044

OLEAN, NEW YORK

April 2023
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Prepared for:

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Prepared By:

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PERIODIC REVIEW REPORT

229 Homer Street Site

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1.0 INTRODUCTION

Benchmark Civil/Environmental Engineering & Geology, PLLC in association with TurnKey Environmental Restoration, LLC (Benchmark-TurnKey) has prepared this Periodic Review Report (PRR) on behalf of Homer Street Properties, LLC (Owner) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C905044, located in Olean, Cattaraugus County, New York (Site; see Figure 1).

This PRR has been prepared for the Site in accordance with NYSDEC DER-10/Technical Guidance for Site Investigation and Remediation (Ref. 1). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form has been completed for the Site (see Appendix A).

This PRR and the associated inspections form have been completed for the post-remedial activities at the Site for the period from April 28, 2022 to April 28, 2023.

1.1 Site Background

The 229 Homer Street Redevelopment Site and surrounding area were originally developed in approximately 1890 for the oil industry and used for refinery purposes and as a petroleum storage tank farm. The site was historically occupied by a large tank, used for oil storage by Socony Vacuum and/or Felmont Oil, and two tank berm areas. The Site was identified as part of the Exxon/Mobil Legacy Site (EMLS) Works #3 area. EMLS operated as an oil refiner in the area under several different names from approximately 1880 to 1950s.

Benson Construction and Development, LLC entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC in October 2015 to investigate and remediate the approximate 3.34-acre property comprised of one tax parcel identified as 229 Homer Street (SBL#94.032-1-2.5) located in the City of Olean, Cattaraugus County, New York and referred to as the 229 Homer Street Site (see Figure 1). The BCA was amended in October 2017 to add Homer Street Properties, LLC as an additional Applicant (Volunteer) to the existing BCA. In December 2018, the BCA was amended to transfer property ownership of the Site from Benson Construction and Development, LLC to Homer Street Properties, LLC.

1.2 Purpose/Scope

The SMP requires, among other things, periodic inspection, and certification that the IC/ECs implemented at the Site remain in place and are functioning as designed. This PRR serves that purpose as well as documenting post-remedial actions taken since the COC was issued.

2.0 SITE OVERVIEW

The approximate 3.34-acre 229 Homer Street Site is bounded by Two Mile Creek and Homer Street to the northwest, the Casella Waste Management Of New York transfer station to the northeast, Southern Tier Rail Authority rail lines to the southeast, and 251 Homer Street (a solar electric generating facility on a parcel previously remediated under the NYSDEC BCP) to the southwest. The Site is currently improved with a one-story building (approximately 7,500 square feet) in the central portion of the Site. The remainder of the Site remains undeveloped.

The Remedial Investigation/Interim Remedial Measures/Alternative Analysis Report (RI/IRM/AA) Work Plan (Ref. 2) was approved by the NYSDEC on November 25, 2015 with concurrence of the New York State Department of Health (NYSDOH). Benchmark-TurnKey performed RI activities at the Site in November and December 2015. However, for various reasons as described in the revised Alternatives Analysis Report (AAR) dated June 2017 (Ref. 3), a revised remedy consisting of limited excavation of shallow grossly contaminated soil (GCS) and an air sparge (AS) and soil vapor extraction (SVE) system was proposed. Benchmark-TurnKey prepared a Work Plan for Pilot Study: Air Sparging and Soil Vapor Extraction in August 2017, which the NYSDEC approved (Ref. 4). The pilot study was undertaken to support the anticipated final design; this work was completed in October 2017 and a report submitted to the NYSDEC (Ref. 5). Using the results of the pilot study, a Remedial Action Work Plan (RAWP) (Ref. 6) was submitted to NYSDEC on February 16, 2018, approved by NYSDEC on March 5, 2018, and field activities were completed at the Site between April and October 2018. The Site was remediated to NYSDEC Part 375 Track 4 commercial soil cleanup objectives (CSCOs) for use in a commercial redevelopment capacity. The Site Management Plan (SMP; Ref. 7) and Final Engineering Report (FER; Ref. 8) were approved by the Department in December 2018. The Certificate of Completion (COC) was recorded on December 28, 2018. Remedial activities are described in the following sections.

2.1 Remedial Actions

In general, remedial activities included:

1. Limited excavation and off-site disposal of GCS-impacted soil.
2. Excavation, removal, and cleaning of abandoned subsurface piping.

3. In-situ treatment of GCS soil/fill using AS and SVE.
4. Placement of a soil cover.
5. Implementation of this Site Management Plan.

The following is a summary of the remedial action completed at the Site:

- Approximately 5,815.47 tons of GCS-impacted soil/fill was excavated and loaded by Benson Construction and Development, LLC, and transported off-site by D&H Excavating for disposal at Waste Management's Chaffee Landfill, located in Chaffee, NY.
- Approximately 1,946 linear feet of subsurface metallic product piping was exposed, tapped, evacuated of contents, removed, cleaned, and recycled. Two portions of piping (Pipe 4) on the Site were not removed from the ground as they reside beneath the existing building (approximately 40 feet) and beneath a concrete pad (approximately 20 feet). The remaining piping was capped. Piping which extended beyond the property boundary was capped and/or grouted at the property line.
- Approximately 16.74 gross tons (18.75 tons) of piping was recycled as scrap metal. The scrap steel was transported by Benson Construction and Development, LLC to Metalico and Ben Weitsman in Allegheny, New York. Cleaning of the pipes generated four drums of pipe scale, oil, and water. They were transported by Environmental Services Group New York, Inc. (ESG) to American Recyclers Company in Tonawanda, New York for incineration.
- Installation of new monitoring wells MW-6 and MW-7 after excavation of impacted soil/fill was complete. Locations approved by NYSDEC.
- Installation and operation of an AS/SVE system to address GCS in the deeper soil/fill from approximately 5 to 15 fbgs and in the upper 5 ft of the water table (i.e., smear zone). The air sparge portion of the system includes 53 injection wells connected to an air compressor in a climate-controlled trailer via individual 1" polyethylene lines. The SVE system includes 14 extraction wells connected by 2" polyethylene lines to one of two blowers in a separate climate-controlled trailer. Emissions from the SVE system are controlled using a biofilter contained within an approximate 20-foot by 7-foot steel roll-off box outfitted with perforated pipe. The biofilter has an approximate 1-foot thick gravel layer at the base of the box overlain by approximately two feet of wood chip and compost filter medium, which allows naturally occurring microbes to bioremediate the air stream and control the nuisance odors from the AS/SVE system.

  The efficacy of the AS/SVE system from start-up to present is summarized in Section 3.2.2 below. Procedures for operating and maintaining the AS/SVE system are documented in the SMP (Operation and Maintenance Plan, Section 5.0 and

AS/SVE System Operations and Maintenance Manual, Appendix J). Figure 5 shows the location of the AS/SVE system components installed for the site and Figure 6 shows the AS/SVE system construction detail and process flow schematic.

- Construction and maintenance of a site cover system as shown on Figure 5. The site cover system was installed at the Site in April and May 2018.
- Execution and recording of an Environmental Easement to restrict land use to commercial/industrial operations and prevent future exposure to any contamination remaining at the Site. The Environmental Easement was recorded with the Cattaraugus County in October 2017.
- Development and implementation of the SMP for management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) institutional and engineering controls, (2) excavation, (3) monitoring and reporting, and (4) operation and maintenance.

2.2 Site Redevelopment Activities

The Site remains undeveloped except for the existing building.

3.0 SITE MANAGEMENT PLAN

The SMP includes an IC/EC Plan, a Monitoring and Sampling Plan, an Operation & Maintenance (O&M) Plan, an Excavation Work Plan (EWP), and a copy of the Environmental Easement. A brief description of the components of the SMP is presented below.

3.1 IC/EC Plan

As detailed in the Environmental Easement, several IC/ECs need to be maintained as a requirement of the BCA.

3.1.1 *Institutional Controls*

- Groundwater-Use Restriction: The use of groundwater for potable and non-potable purposes is prohibited.
- Land-Use Restriction: The Site may be used for commercial and/or industrial use.
- Implementation of the SMP: The O&M Plan and EWP must be followed.

3.1.2 *Engineering Controls*

- Vapor Mitigation: There are no sub-slab depressurization systems currently. In accordance with the Decision Document, if the occupied portion of the existing building floor slab is compromised (cracked) or future building(s) are to be constructed and occupied, an evaluation of the potential for soil vapor intrusion will be completed.
- AS/SVE System: The AS/SVE system has operated and was monitored nearly continuously between September 2018 and January 2022 during times that temperatures were consistently above freezing. The AS/SVE system did not run in 2023.
- Groundwater Monitoring: Groundwater monitoring was completed in June 2022.
- Cover System: The cover system is intact and functioning as intended.

3.1.3 *Site Inspection & IC/EC Compliance*

On March 9, 2023, Benchmark's Certifying Professional Engineer performed a Site visit and assessment. During this visit, the Site covered by this PRR was found to be compliant with the IC/EC requirements. No observable indication of intrusive activities, cover failure, or use of groundwater were noted.

Appendix A includes the completed and P.E.-certified IC/EC Form for the Site. Appendix B includes the site photographic log.

3.2 Monitoring and Sampling Plan

The Monitoring and Sampling Plan specifies the methods used for:

- Sampling and analysis of groundwater
- Remedial AS/SVE system monitoring
- Site-wide inspection
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment

3.2.1 *Groundwater Sampling and Analysis*

As part of the 2022 PRR, Benchmark requested the annual sampling parameters be modified to semi-volatile organic compounds (SVOCs) and SVOC tentatively compounds (TICs) only. The Department approved the request via email on June 17, 2022. Groundwater sampling was conducted June 21, 2022 at wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7. The samples were analyzed via USEPA Method 8270D and 8270D-SIM and TICs via USEPA Method 8270D for target compound list (TCL) SVOCs. Appendix C includes field notes and analytical data package for the sampling event. Table 1 summarizes current and historic groundwater elevations. Table 2 summarizes the analytical results as well as historic groundwater quality data. June 2022 groundwater data was submitted to the NYSDEC EQuIS database on March 30, 2023.

Appendix C includes the data usability summary report (DUSR). Table 2 has been updated to reflect the final accepted data. The results for the samples are usable as reported except for one minor qualification; the bis(2-ethylhexyl)phthalate result at well MW-4 was validated as an estimated quantity that may be biased high.

3.2.1.1 Groundwater Elevations

The groundwater elevations (Table 1) were contoured as shown on Figure 3 (June 2022). Groundwater flow direction in the uppermost sand and gravel aquifer is generally toward the south/southeast, consistent with the prior groundwater contour maps. The water

level gradient across the Site remains level. The groundwater level drops to 1413.28 feet at downgradient well MW-7. Overall, well MW-4 is upgradient and well MW-7 is downgradient.

3.2.1.2 Analytical Data

SVOCs

Pre-remediation data (December 2015) was either non-detect or below GWQS/GVs for all wells except for MW-3 due to the higher detection limits of the analytical method. Since then, SVOCs have been analyzed via EPA Method 8270D-SIM, which allows for lower detection of PAHs. During the June 2022 sampling event, slight SVOC GWQS/GV exceedances were only noted in wells MW-1, MW-2, and MW-4. Bis(2-ethylhexyl) phthalate was detected above its GWQS/GV of 5 ug/L at MW-1 (12 ug/L) and MW-4 (44 ug/L). Both results were the highest bis(2-ethylhexyl) phthalate concentrations observed at each location to date, but are of the same order of magnitude as observed in other wells. Seven SVOCs were detected at concentrations above GWQS/GVs at well MW-2; however, the total SVOC concentration is very low at 2.7 ug/L. SVOC total TIC concentrations ranged from 2.91 ug/L (well MW-4) to 139 ug/L (well MW-7) in all wells during the June 2022 sampling event.

3.2.2 *AS/SVE System and Monitoring*

The AS/SVE system in operation at the Site is comprised of two main components:

1. The AS portion of the system is constructed of a series of vertical injection wells connected individually to a 53-point manifold with solenoid valves and rotameter flow meters connected to the air compressor; thus, enabling individual operation of banks of AS wells. The AS process equipment consists of blower, motors, aftercooler, and ancillary equipment to provide the required flow rate and pressure for the injection housed inside a climate-controlled trailer.
2. The SVE collection system is constructed of a series of 14 vertical extraction wells and extraction well piping connected to a 14-point manifold. The SVE process equipment (blowers, motors, moisture separator, and ancillary equipment) are housed in a climate-controlled trailer separate from the AS trailer.

The extracted air is treated in a biofilter prior to discharge to the atmosphere. The biofilter treatment medium consists of a mixture of compost and mulch (each approx. 50% by weight). The natural bacteria in the biofilter use the organics in the waste stream as a source of energy. The biofilter medium is maintained in a slightly wet state and periodically mixed

(fluffed-up). Biofilter media requires mixing when nuisance odors become evident or a thick cake layer forms on top preventing proper venting; the top 4-6 inches of the biofilter media is mixed/raked periodically to keep the media broken up and loose. Raking of the biofilter was not required during the 2021/2022 reporting period due to low effluent PID readings. If significant odors are noted at the downgradient property line, the medium will be replenished/ replaced and noted on the OM&M field sheets. Condensate water that accumulates in the moisture separator is used to maintain moisture in the biofilter, and/or pumped through filter bags, treated with carbon then discharged under permit to the City of Olean sewer system. A temporary discharge permit with the City of Olean is required due to the volume of water (condensate) generated by the system. Condensate discharged to the sewer is measured by the in-line totalizer and logged on the OM&M field sheets.

The SVE system operated through January 13, 2022 when it was turned off for the winter. Figure 6 is a layout of the AS/SVE collection system and well locations. Figure 7 is a process flow schematic of the AS/SVE system.

On May 2, 2022, Benchmark-TurnKey submitted a letter request (Ref. 9) to NYSDEC on behalf of Homer Street Properties, LLC with verification soil/fill sampling data for consideration of termination of the SVE system operation since VOC removal had leveled off as evidenced by the data submitted in the 2020/2021 PRR. The Department replied on May 5, 2022 stating that system shutdown was approved but the AS/SVE system must remain on-site and intact at this time (Ref. 10). To assess if rebounding occurs, NYSDEC and NYSDOH requested that the following activities be completed at least one year after discontinuing operation of the AS/SVE system:

- Collection of an additional round of PID readings at each of the SVE wells.
- Collection of VOC samples (TO-15) from SVE-7 and SVE-8 to evaluate potential rebound effects in proximity to the onsite building.

PID readings were collected on May 12, 2022, August 4, 2022, November 10, 2022, and February 22, 2023 and are summarized in Section 3.2.2.1.

Wells SVE-7 and SVE-8 were sampled on February 21, 2023. New York State currently does not have any standards, criteria, or guidance values for concentrations of compounds in soil vapor. In the absence of this information, soil vapor sampling results were reviewed "as a whole," in conjunction with the results of other environmental sampling and the site conceptual model, to identify trends and spatial variations in the data.

3.2.2.1 Results

The estimated mass of organic petroleum hydrocarbons removed by the system through January 13, 2022 (last day of operation) is approximately 13,742 pounds. Due to diminished VOC mass removal rates and confirmatory soil boring results, NYSDEC approved the shutdown of the AS/SVE system on May 5, 2022.

PID readings were collected quarterly from all 14 SVE wells during the 2022/2023 monitoring period as summarized on Table 3. Half the wells measured 0.0 ppm during each monitoring event. Wells SVE-4, SVE-5, and SVE-6 were the only locations over the four quarterly monitoring events where PID readings of 5.0 ppm or greater were observed, with only well SVE-5 (5.7 ppm) measuring above this threshold during the February 2023 event.

Table 4 summarizes the analytical results for air samples collected from wells SVE-7 and SVE-8. The total cyclohexane measured in wells SVE-7 and SVE-8 was 3.12 ug/m³, which is a 99.99% reduction in cyclohexane concentration as compared to the 2018 system influent value of 56,500 ug/m³. As discussed above, there are no standards, criteria, or guidance values for compounds in soil vapor. The compounds detected during the 2023 sampling event are the same order of magnitude as 2021 SVE influent results. Cyclohexane decreased from 70.6 ug/m³ in the 2021 influent to 3.12 ug/m³ in 2023 (SVE-7 and SVE-8). The PID readings and analytical results provide evidence that rebounding has not occurred, and the system has successfully remediated subsurface soils to its maximum practical extent. Appendix D includes the analytical data.

3.2.3 *Site-Wide Inspection - Cover System Monitoring*

The existing cover system is comprised of a minimum of 12 inches of clean gravel, an existing building pad, and concrete pads. A demarcation layer, consisting of orange plastic mesh material, provides a visual reference to the top of the remaining contamination zone, which is the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP.

In accordance with the SMP, the cover system must be maintained and replaced in the event it is breached as described in the EWP (SMP Appendix B). The cover system is to be inspected annually and following severe storm events. The key maintenance concerns and corrective actions are provided below.

- Gravel/Stone Cover Monitoring
  - *Ruts or erosion will be repaired by re-grading the localized area and adding additional material.*
- Concrete Pad Cover Monitoring
  - *Cracks or penetrations through the concrete pad will be sealed and/or patched.*

At the time of the Site inspection, the gravel/stone cover was in good condition and no erosion issues were identified within the swale. SB&C Services, a telecommunications and electrical services company, continues to lease the building. Benchmark assessed the building foundation and found the floor intact; therefore, soil vapor intrusion does not appear to be an issue. Appendix B includes a photographic log showing Site conditions at the time of the inspection.

If the type of cover system changes from that which existed (i.e., a gravel cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent PRR.

3.3 O&M Plan

Although the SVE system was shut down on January 13, 2022 for the winter, the following sections describe the operation and maintenance for the AS/SVE System.

3.3.1 *SVE System*

3.3.1.1 Routine System Operation and Maintenance

The SVE system is designed to require little maintenance over the expected duration of use at the 229 Homer Street site. The blower bearings are maintenance free. Any required maintenance will be completed in compliance with the OM&M manual included in Appendix J of the SMP.

3.3.1.2 System Monitoring Devices and Alarms

Monitored system operating conditions that trigger an alarm condition include moisture separator tank high level. This alarm condition automatically shuts down the SVE blower. The SVE system includes a Siemens PLC (Programmable Logic Controller), which

allows all alarm conditions to be monitored directly in the field or remotely. Based on the alarm, the remedial party will respond and/or contact the appropriate repair vendor (e.g., electrician, mechanical repair service).

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

Based on our observation during the March 9, 2023 inspection, the Site covered by this PRR was fully compliant with the IC/EC requirements.

Long-term groundwater monitoring indicates similar or slight improvement to the groundwater quality for SVOCs.

NYSDEC approved the shutdown of the AS/SVE system on May 5, 2022. System operation and management was suspended during the 2022/2023 reporting period. Per the NYSDEC approval letter, Benchmark-TurnKey completed the following monitoring:

- Collected an additional round of PID readings at each of the SVE wells
- Collected VOC samples (TO-15) from SVE-7 and SVE-8 to evaluate potential rebound effect in proximity to the onsite building.

In addition to the above activities, Benchmark-TurnKey collected quarterly PID readings during the 2022/2023 monitoring period. The final round of PID readings remained low with only one reading slightly above 5 ppm. VOC air sample results collected at SVE-7 and SVE-8 were of the same order of magnitude as 2021 SVE influent results and the total cyclohexane concentration has decreased by 99.99% as compared to the 2018 system influent. The additional monitoring requested by the NYSDEC confirms no rebounding effects proximate the on-site building.

4.2 Recommendations

Continued groundwater monitoring is recommended. The next annual groundwater monitoring event is to be completed in June 2023.

Post-SVE system shutoff monitoring results are consistent with previous operational results and confirm no rebounding in the vicinity of the building. Benchmark, on behalf of Homer Street Properties, requests full decommissioning and removal of the AS/SVE system as the system has successfully remediated subsurface soils to its maximum practical extent and there would be no benefit to continued operation. An SVE System Decommissioning Work Plan will be submitted to NYSDEC for approval.

5.0 DECLARATION/LIMITATION

Benchmark Civil/Environmental Engineering & Geology, PLLC personnel conducted the annual site inspection for BCP Site No. C905044, Olean, New York according to generally accepted practices. This report complies with the scope of work provided to Homer Street Properties, LLC by Benchmark Civil/Environmental Engineering & Geology, PLLC.

This report has been prepared for the exclusive use of Homer Street Properties, LLC. The contents of this report are limited to information available at the time of the site inspection. The findings herein may be relied upon only at the discretion of Homer Street Properties, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark Civil/Environmental Engineering & Geology, PLLC.

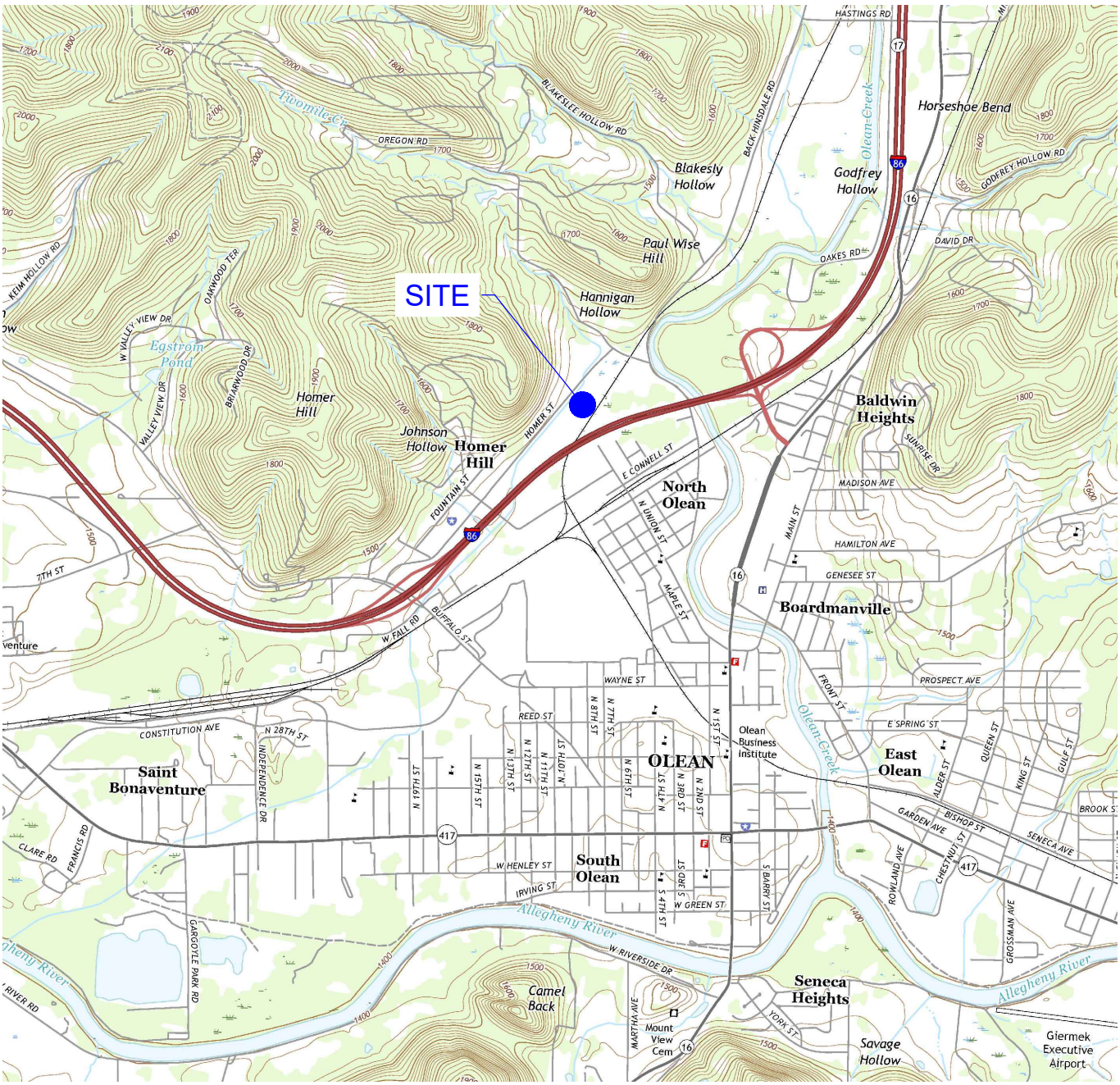
6.0 REFERENCES

1. New York State Department of Environmental Conservation. *DER-10/Technical Guidance for Site Investigation and Remediation.* May 2010.
2. TurnKey Environmental Restoration, LLC. *Remedial Investigation / Interim Remedial Measures / Alternatives Analysis Work Plan, 229 Homer Street Site, Olean New York.* Revised November 2015.
3. TurnKey Environmental Restoration, LLC in association with Benchmark Environmental Engineering & Science, PLLC. *Revised Alternative Analysis Report, 229 Homer Street Site, BCP Site Number: C905044, Olean New York.* June 2017.
4. TurnKey Environmental Restoration, LLC. *229 Homer Street Site, Site No. C905044, Work Plan for Pilot Study: Air Sparging and Soil Vapor Extraction.* August 25, 2017.
5. TurnKey Environmental Restoration, LLC. *229 Homer Street Site, Site No. C905044, Air Sparging/Soil Vapor Extraction Pilot Study Report.* October 30, 2017.
6. TurnKey Environmental Restoration, LLC in association with Benchmark Environmental Engineering & Science, PLLC. *Remedial Action Work Plan (RAWP), 229 Homer Street Site, BCP Site No. C905044, Olean, New York.* February 2018.
7. Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC. *Site Management Plan, 229 Homer Street Site, NYSDEC Site Number C905044, Olean, NY.* December 2018.
8. Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC. *Final Engineering Report, 229 Homer Street Site, NYSDEC Site Number C905044, Olean, NY.* December 2018.
9. Benchmark Civil/Environmental Engineering & Geology, PLLC in association with TurnKey Environmental Restoration, LLC. *Verification Soil Sampling Results for SVE System, 229 Homer Street Site (BCP Site No. C905044), Olean, New York.* May 2, 2022
10. New York State Department of Environmental Conservation. *Site Management (SM) – Verification Soil Sampling Results for SVE System, 229 Homer Street, Olean, Cattaraugus County, Site No.: C905044.* May 5, 2022.

FIGURES

F:\CAD\TurnKey\Benson\229 Homer Street\00-PRR\Figure 1; Site Location and Vicinity Map.dwg, 3/14/2023 2:17:11 PM

FIGURE 1



NOTES:
1. BASE MAP OLEAN, NEW YORK USGS QUADRANGLE, 2016.
2. APPROX. SCALE 1"=3,000 FEET.

BENCHMARK IN ASSOCIATION WITH TURNKEY ENVIRONMENTAL RESTORATION, LLC

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PROJECT NO.: 0311-018-001

DATE: MARCH 2023

DRAFTED BY: RFL-CMC

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

229 HOMER STREET SITE
BCP SITE NO. C905044
OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC

DATE: MARCH 2023
DRAFTED BY: RFL-CMC

F:\CAD\TurnKey\Benson\229 Homer Street\00-PRR\2021-2022 PRR\Figure 2; Site Plan (Post-Remediation) & Property Use Map.dwg, 3/14/2023 2:15:45 PM

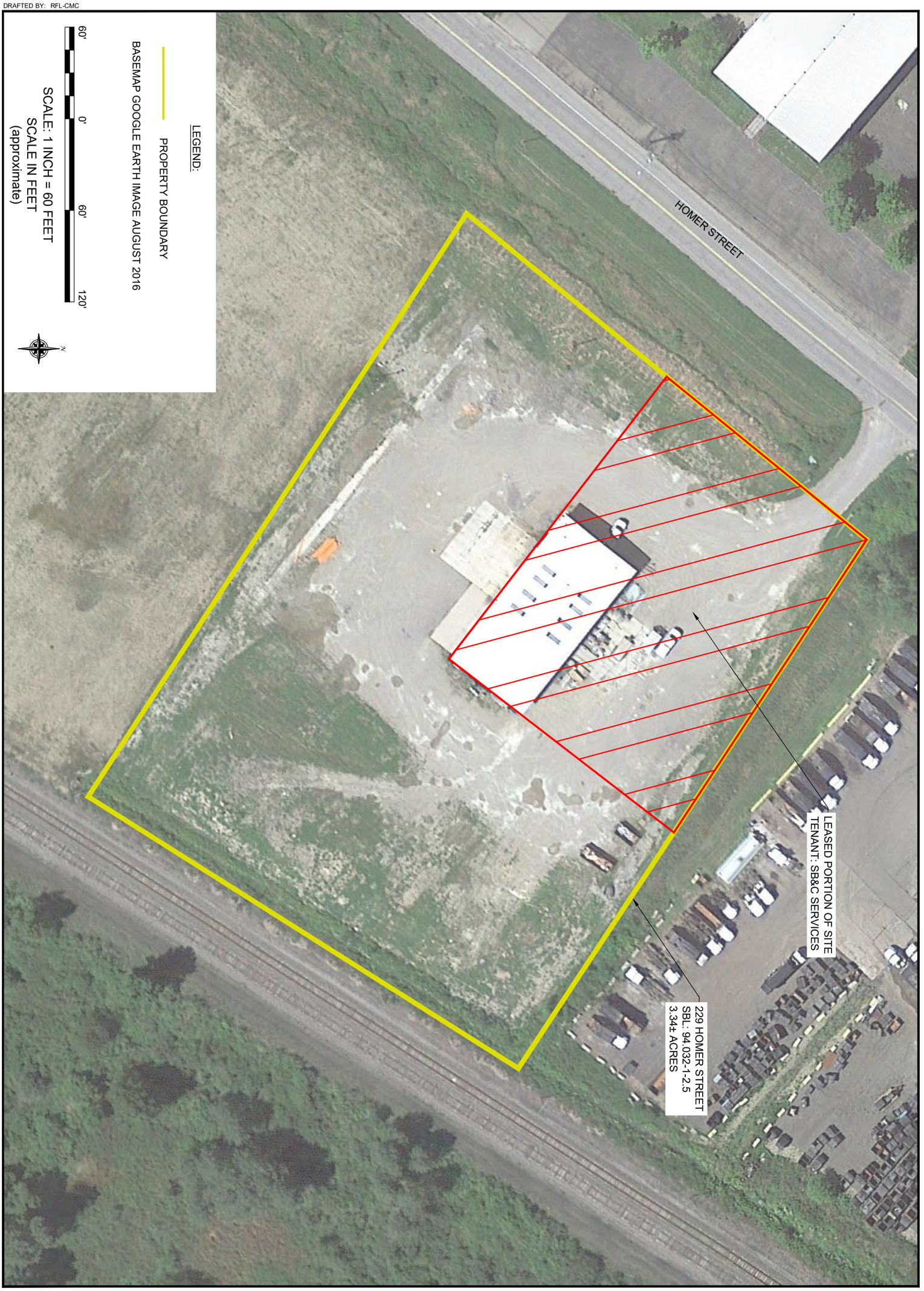

FIGURE 2

SITE PLAN (POST-REMEDIATION) & PROPERTY USE MAP

PERIODIC REVIEW REPORT

229 HOMER STREET SITE
BCP SITE NO. C905044
OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC

BENCHMARK IN ASSOCIATION WITH TURNKEY ENVIRONMENTAL RESTORATION, LLC

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JOB NO.: 0311-018-001

DATE: MARCH 2023
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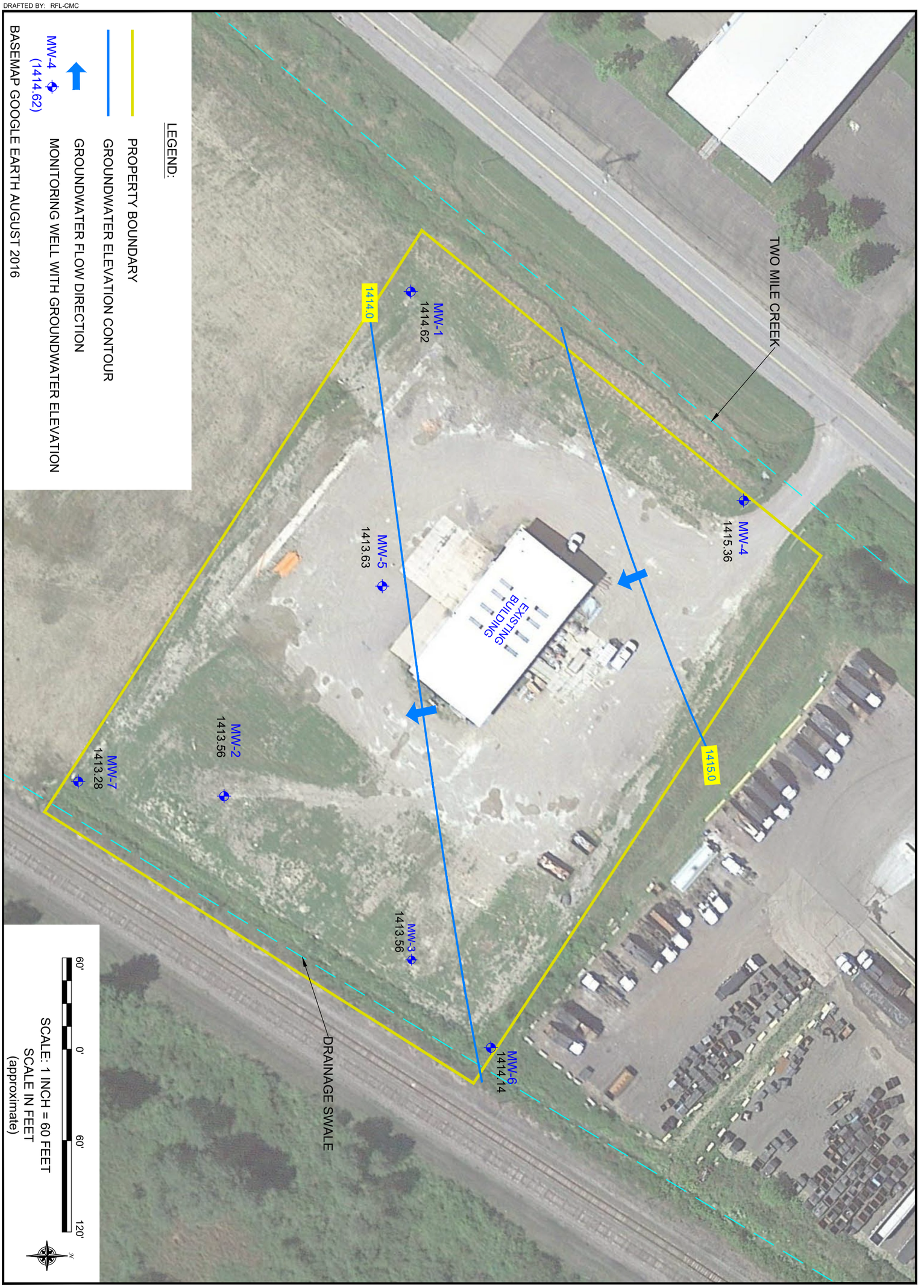
F:\CAD\TurnKey\Benson\229 Homer Street\00-PRR\2022-2023 PRR\Figure 3; Isopotential map (June 2022).dwg, 4/4/2023 3:51:13 PM



ISOPOTENTIAL MAP (JUNE 2022)

FIGURE 3

PERIODIC REVIEW REPORT

229 HOMER STREET SITE
BCP SITE NO. C905044
OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC

BENCHMARK IN ASSOCIATION WITH TURNKEY ENVIRONMENTAL RESTORATION, LLC

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F:\CAD\TurnKey\Benson\229 Homer Street\00-PRR\Figure 4; Site Cover System.dwg, 3/14/2023 2:23:53 PM

EXISTING CONCRETE COVER SYSTEM DETAIL

NTS

2" SCREENED GRAVEL COVER SYSTEM DETAIL

NTS

SWALE COVER SYSTEM DETAIL

NTS

LEGEND:

- BCP AND PROPERTY BOUNDARY
- SWALE COVER SYSTEM
- CONCRETE COVER SYSTEM
- GRAVEL COVER SYSTEM
- DEMARCATION LAYER

SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)

DATE: MARCH 2023
DRAFTED BY: RFL

TURNKEY ENVIRONMENTAL RESTORATION, LLC

IN ASSOCIATION WITH

BENCHMARK

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SITE COVER SYSTEM AND DETAILS

PERIODIC REVIEW REPORT

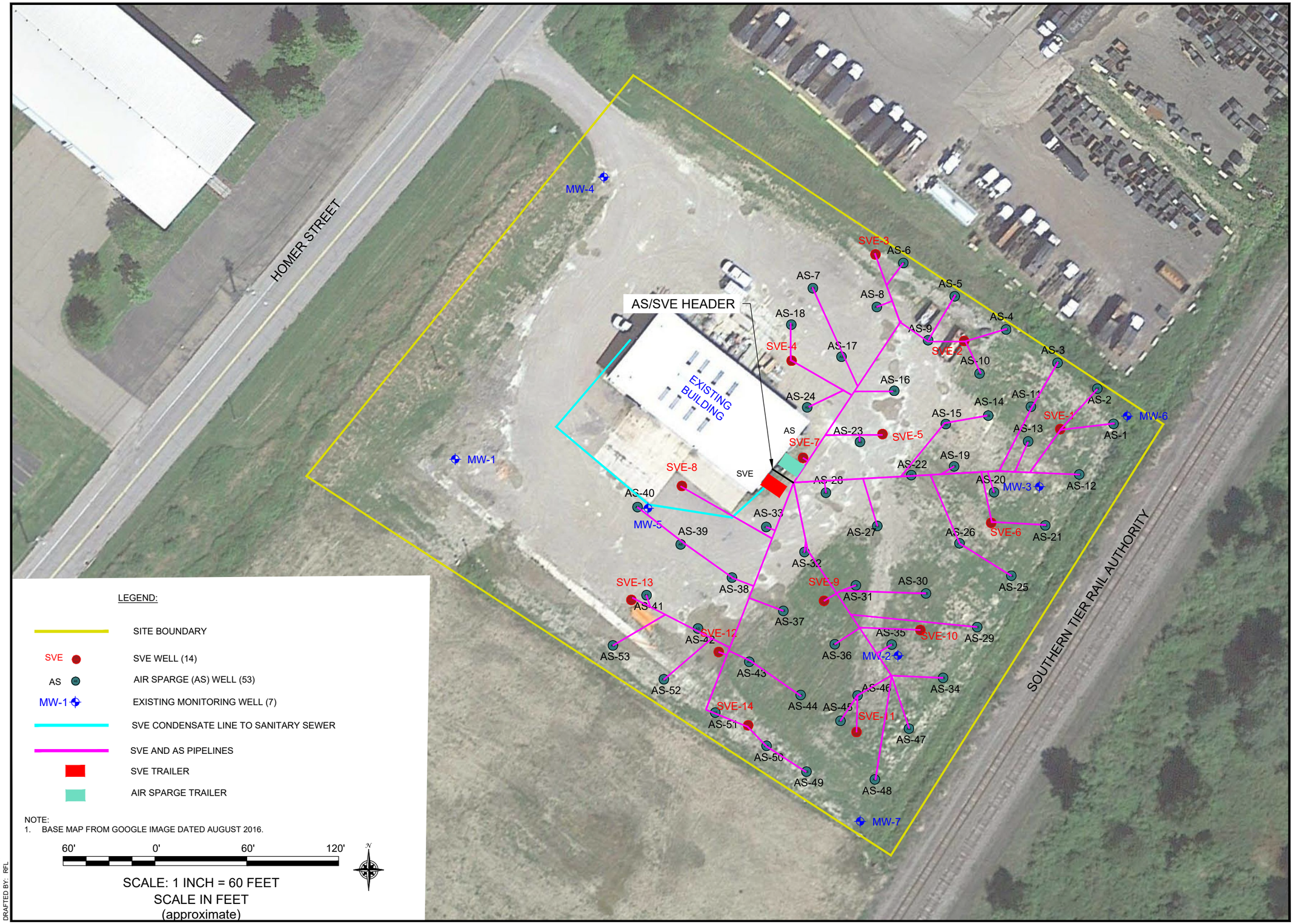
229 HOMER STREET SITE
BCP SITE NO. C905044
OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC

FIGURE 4

F:\CAD\TurnKey\Benson\229 Homer Street\00-PRR\Figure 5; SVE and AS Insitu Remediation Record.dwg, 3/14/2023 2:25:57 PM



LEGEND:

- SITE BOUNDARY
- SVE — SVE WELL (14)
- AS — AIR SPARGE (AS) WELL (53)
- MW-1 — EXISTING MONITORING WELL (7)
- SVE CONDENSATE LINE TO SANITARY SEWER
- SVE AND AS PIPELINES
- SVE TRAILER
- AIR SPARGE TRAILER

NOTE:
1. BASE MAP FROM GOOGLE IMAGE DATED AUGUST 2016.

60' 0' 60' 120'

SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)

DATE: MARCH 2023
DRAFTED BY: REL

AIR SPARGE AND SOIL VAPOR EXTRACTION SYSTEM LAYOUT

PERIODIC REVIEW REPORT

229 HOMER STREET SITE
BCP SITE NO. C905044
OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC

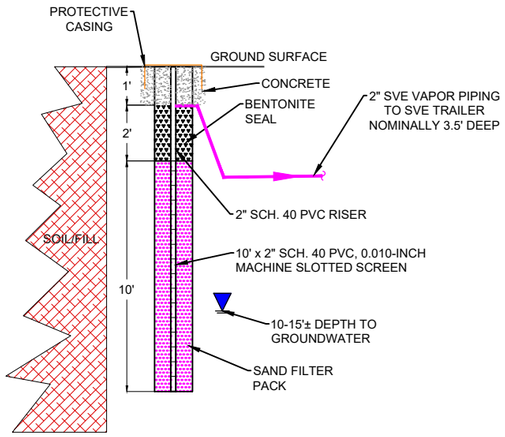
BENCHMARK IN ASSOCIATION WITH TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

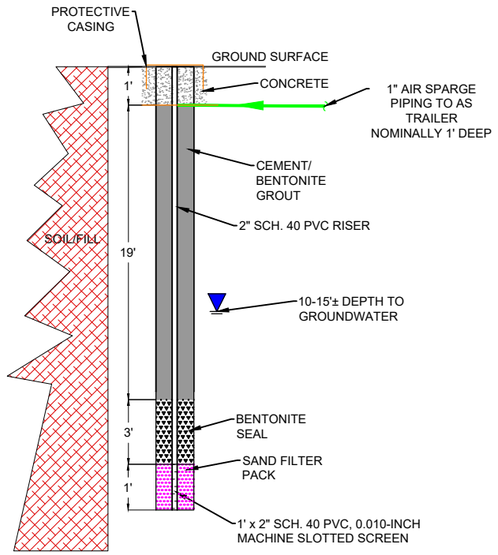
JOB NO.: 0311-018-001

FIGURE 5

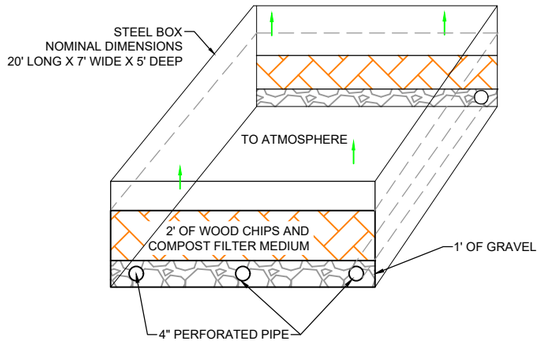
TYPICAL SVE WELL
DEPTH 13 FEET
NTS



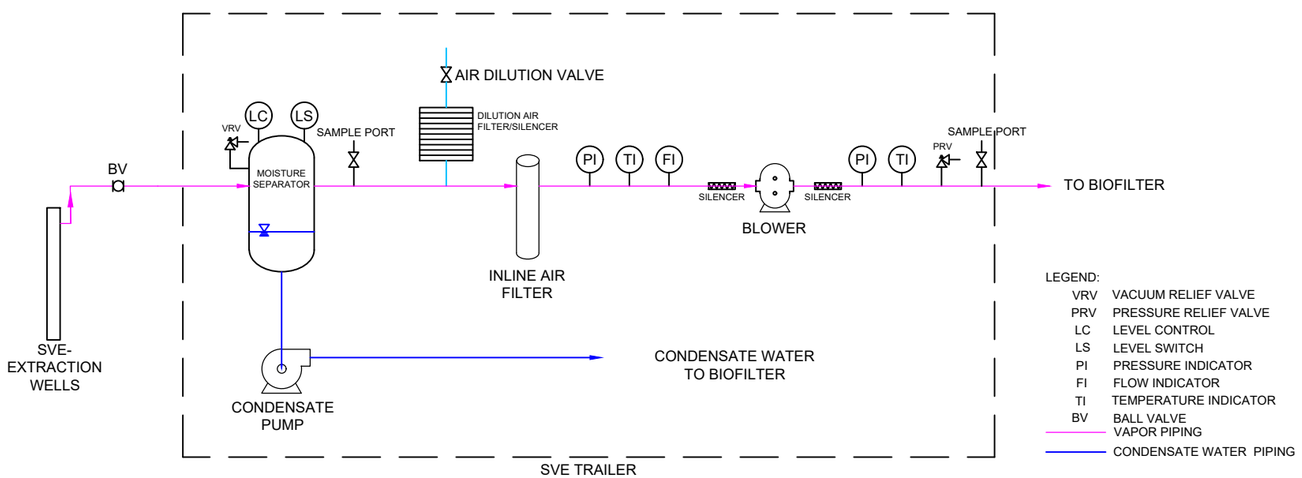
TYPICAL AIR SPARGE WELL
DEPTH 24 FEET
NTS



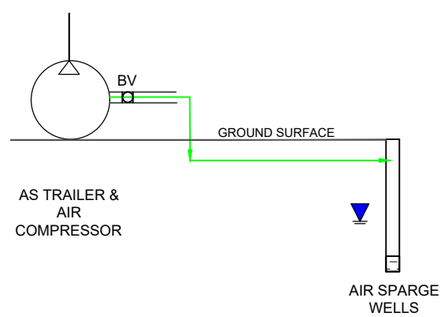
BIOFILTER DETAIL
NTS



SVE SYSTEM



AIR SPARGE SYSTEM



DATE: MARCH 2023
DRAFTED BY: RFL

TurnKey Environmental Restoration, LLC
In association with
Benchmark

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

JOB NO.: 0311-018-001

AIR SPARGE AND SOIL VAPOR EXTRACTION SYSTEM SCHEMATIC AND WELL DETAILS

PERIODIC REVIEW REPORT

229 HOMER STREET SITE
BCP SITE NO. C905044
OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC

FIGURE 6

TABLES

BENCHMARK TURNKEY

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS

PERIODIC REVIEW REPORT
229 HOMER STREET SITE
OLEAN, NEW YORK

Location[1]	Grade Elevation (ft)	TOR Elevation[2] (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)
			7/1/2019 & 7/2/2019		12/3/2019 & 12/4/2019		6/12/20		12/3/20		6/22/21		6/21/22	
MW-01	1424.90	1424.49	8.40	1416.09	10.80	1413.69	9.69	1414.80	12.12	1412.37	10.40	1414.09	9.87	1414.62
MW-02	1425.16	1424.72	9.45	1415.27	12.09	1412.63	11.68	1413.04	12.96	1411.76	9.57	1415.15	11.16	1413.56
MW-03	1424.83	1424.34	9.28	1415.06	11.40	1412.94	9.45	1414.89	12.58	1411.76	9.91	1414.43	10.78	1413.56
MW-04	1425.67	1425.39	8.63	1416.76	11.11	1414.28	9.96	1415.43	12.46	1412.93	11.11	1414.28	10.03	1415.36
MW-05	1426.06	1425.73	10.56	1415.17	12.98	1412.75	12.41	1413.32	13.82	1411.91	11.53	1414.20	12.10	1413.63
MW-06	1424.25	1423.99	8.95	1415.04	11.21	1412.78	9.52	1414.47	10.56	1413.43	8.70	1415.29	9.85	1414.14
MW-07	1424.66	1424.43	9.88	1414.55	12.08	1412.35	11.43	1413.00	12.88	1411.55	11.61	1412.82	11.15	1413.28

Notes:

1. Wells MW-01, MW-02, MW-03, MW-04, & MW-05 were installed in December 2015. Wells MW-06 & MW-07 were installed in June 2018.
2. Elevations are referenced to NAVD 88.

Acronyms:

fbTOR = Feet below top of riser

DTW = Depth to water

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA

PERIODIC REVIEW REPORT
229 HOMER STREET SITE
OLEAN, NEW YORK

Parameter [1]	NYSDEC Class GA GWQS [2]	Sample Location and Date																				
		MW-1							MW-2							MW-3						
		12/8/2015	7/1/2019	12/4/2019	6/12/2020	12/4/2020	6/22/2021	6/21/2022	12/8/2015	7/2/2019	12/3/2019	6/12/2020	12/4/2020	6/22/2021	6/21/2022	12/8/2015	7/2/2019	12/4/2019	6/12/2020	12/4/2020	6/22/2021	6/21/2022
TCL Volatile Organic Compounds (VOCs) - ug/L																						
Acetone	**50**	29	15 J	ND	ND	ND	ND	NA	14	13	ND	21	ND	3.6 J	NA	ND	11	ND	9.9	2 J	ND	NA
Benzene	**1**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA
Cyclohexane	**--**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	0.99 J	ND	ND	NA
Methylcyclohexane	**--**	1.2	ND	ND	ND	ND	ND	NA	4.9	ND	3.4 J	ND	ND	1.1 J	NA	100 DL	0.98 J	1.9 J	67	0.94 J	2.3 J	NA
Toluene	**5**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA
Total TICs	**--**	--	*2.9 J*	*4.15 J*	*ND*	--	*ND*	NA	--	*66.4 J*	*57.4 J*	*52.2*	--	*36.2 J*	NA	--	*27.4 J*	*24.2 J*	*143*	--	*36.8 J*	NA
Total VOCs	**--**	30	15	ND	ND	ND	ND	NA	19	13	3.4	21	ND	4.7	NA	100	12	1.9	78	2.9	2.3	NA
TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L																						
2-Methylnaphthalene [3]	**--**	ND	ND	ND	0.03 J	ND	ND < 0.02	ND < 0.02	ND	ND	0.06 J	ND	0.11	0.12	ND < 0.02	ND	ND	ND	0.07 J	ND	ND < 0.02	ND < 0.02
2-Chloronaphthalene [3]	**10 ***	ND	ND	ND	ND	ND	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND	ND < 0.02	ND < 0.02
Acenaphthene [3]	**20 ***	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND	0.14	ND < 0.01	ND	ND	0.04 J	ND	ND	ND < 0.01	ND < 0.01
Acenaphthylene [3]	**--**	ND	ND	0.02 J	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01
Anthracene [3]	**50 ***	ND	ND	ND	ND	ND	0.02 J	ND < 0.01	ND	ND	ND	ND	ND	0.12	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01
Benzo(a)anthracene [3]	**0.002 ***	ND	ND	ND	ND	ND	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND	ND < 0.02	**0.05 J**	ND	ND	ND	**0.03 J**	ND	ND < 0.02	ND < 0.02
Benzo(a)pyrene [3]	**ND**	ND	ND	**0.03 J**	ND	ND	ND < 0.02	ND < 0.02	ND	ND	**0.03 J**	ND	ND	**0.05 J**	**0.04 J**	ND	ND	**0.02 J**	**0.04 J**	ND	**0.02 J**	ND < 0.02
Benzo(b)fluoranthene [3]	**0.002 ***	ND	ND	ND	ND	**0.02 J**	**0.01 J**	ND < 0.01	ND	ND	ND	ND	ND	**0.07 J**	**0.05 J**	ND	ND	ND	**0.09 J**	ND	**0.03 J**	ND < 0.01
Benzo(k)fluoranthene [3]	**0.002 ***	ND	ND	ND	ND	**0.01 J**	**0.01 J**	ND < 0.01	ND	ND	ND	ND	ND	**0.03 J**	**0.02 J**	ND	ND	ND	**0.04 J**	ND	**0.01 J**	ND < 0.01
Benzo(ghi)perylene [3]	**--**	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	**0.04 J**	ND	ND	ND	0.11	ND	ND < 0.01	ND < 0.01
Bis(2-ethylhexyl) phthalate	**5**	ND	ND	1.9 J	ND	2.2 J	ND < 1.5	**12**	ND	ND	1.8 J	**6.8**	3.6	**7.4**	2.2 J	0.68 J	ND	ND	ND	2.1 J	ND < 1.5	ND < 1.5
Chrysene [3]	**0.002 ***	ND	ND	**0.04 J**	ND	ND	**0.01 J**	ND < 0.01	ND	ND	**0.03 J**	ND	ND	**0.26**	**0.06 J**	ND	ND	**0.02 J**	**0.37**	ND	ND < 0.01	ND < 0.01
Dibenzo(a,h)anthracene [3]	**--**	ND	ND	0.02 J	ND	ND	ND < 0.01	ND < 0.01	ND	ND	0.03 J	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	**0.11**	ND	ND < 0.01	ND < 0.01
Diethyl phthalate	**50 ***	ND	ND	ND	ND	ND	ND < 0.38	ND < 0.38	ND	ND	ND	ND	ND	ND < 0.38	ND < 0.38	ND	ND	ND	ND	ND	ND < 0.38	ND < 0.38
Di-n-butylphthalate	**50**	ND	ND	ND	ND	ND	ND < 0.39	ND < 0.39	ND	ND	ND	ND	ND	ND < 0.39	ND < 0.39	ND	ND	ND	ND	ND	ND < 0.39	ND < 0.39
Di-n-octyl phthalate	**50 ***	ND	ND	ND	ND	ND	ND < 1.3	ND < 1.3	ND	ND	ND	ND	ND	ND < 1.3	ND < 1.3	0.73 J	ND	ND	ND	ND	ND < 1.3	ND < 1.3
Fluorene [3]	**50 ***	ND	ND	0.03 J	ND	ND	0.02 J	ND < 0.01	ND	ND	0.13	ND	0.13	0.23	0.07 J	0.7 J	ND	0.1	ND	ND	ND < 0.01	0.07 J
Fluoranthene [3]	**50 ***	ND	ND	ND	ND	0.03 J	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND	0.07 J	0.07 J	ND	ND	ND	0.04 J	ND	0.03 J	ND < 0.02
Hexachlorobenzene [3]	**0.04**	ND	ND	ND	ND	ND	0.02 J	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01
Indeno(1,2,3-cd)pyrene [3]	**0.002 ***	ND	ND	ND	ND	ND	**0.01 J**	ND < 0.01	ND	ND	ND	ND	ND	**0.04 J**	**0.04 J**	ND	ND	ND	**0.09 J**	ND	**0.03 J**	ND < 0.01
Naphthalene [3]	**10 ***	ND	ND	ND	0.21 J	ND	ND < 0.05	ND < 0.05	ND	ND	0.11	ND	ND	0.13	ND < 0.05	ND	ND	ND	0.1 J	0.1 J	ND < 0.05	ND < 0.05
Pentachlorophenol [3]	**1**	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	0.18 J	ND	ND	0.12 J	ND < 0.01	**7.1 J**	ND	0.17 J	ND	ND	ND < 0.01	ND < 0.01
Phenanthrene [3]	**50 ***	ND	ND	ND	ND	ND	0.03 J	ND < 0.02	ND	ND	ND	ND	0.13	0.11	ND < 0.02	0.75 J	ND	ND	ND	ND	ND < 0.02	ND < 0.02
Pyrene [3]	**50 ***	ND	ND	ND	ND	0.03 J	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND	0.16	0.06 J	ND	ND	ND	0.17	0.06 J	0.05 J	ND < 0.02
Total TICs	--	--	*7.80 J*	*5.80 J*	*8.20 J*	--	*1.53 J*	*6.58 J*	--	*90.7 J*	*175 J*	*155 J*	--	*443 J*	46.4 J	--	*3.10 J*	*27 J*	*417 J*	--	*156 J*	*28.60 J*
Total SVOCs	**--**	ND	ND	2.0	0.24 J	2.3	0.13	12	ND	ND	2.4	6.8	4.0	9.1	2.7 J	10	ND	0.35	1.3	2.3	0.17	0.07 J

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS).
3. SVOCs results obtained using Method 1,870D-SIM, during the July 2019, December 2019, June 2020, December 2020, June 2021, June 2022 sampling events.

Definitions:

ND = Parameter not detected above laboratory method detection limit (MDL).
ND<0.01 = Parameter not detected above MDL listed.
NA = Parameter not analyzed
"--" = No GWQS available.
" * " = Groundwater Quality Guidance Value
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
J+= the analyte was positively identified; the associated numerical value is an estimated quanitity that may be biased high.

BOLD	= Sample result exceeds NYSDEC Class GA GWQS
12/8/2015	= Samples collected pre-remediation.

BENCHMARK TURNK

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA

PERIODIC REVIEW REPORT
229 HOMER STREET SITE
OLEAN, NEW YORK

Parameter [1]	NYSDEC Class GA GWQS [2]	Sample Location and Date																									
		MW-4							MW-5							MW-6							MW-7					
		12/8/2015	7/1/2019	12/3/2019	6/12/2020	12/4/2020	6/22/2021	6/21/2022	12/8/2015	7/1/2019	12/3/2019	6/12/2020	12/4/2020	6/22/2021	6/21/2022	7/2/2019	12/3/2019	6/12/2020	12/4/2020	6/22/2021	6/21/2022	7/1/2019	12/4/2019	6/12/2020	12/4/2020	6/22/2021	6/21/2022
TCL Volatile Organic Compounds (VOCs) - ug																											
Acetone	**50**	15	13	ND	ND	ND	ND	NA	37	14	ND	14	ND	ND	NA	13	ND	ND	ND	ND	NA	9.3	ND	15	ND	ND	NA
Benzene	**1**	**1.5**	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA
Cyclohexane	**--**	ND	ND	ND	ND	ND	ND	NA	ND	0.98 J	ND	ND	ND	ND	NA	2.4 J	1.4 J	40	ND	ND	NA	ND	1 J	2.1 J	1.1 J	0.37 J	NA
Methylcyclohexane	**--**	1.8	ND	ND	ND	ND	ND	NA	52	31	3.6 J	2.0 J	ND	ND	NA	28	11	140	ND	2.9 J	NA	0.67 J	23	60	17	6.7 J	NA
Toluene	**5**	0.64 J	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA
Total TICs	**--**	--	*2.35 J*	*2.93 J*	*ND*	--	*ND*	NA	--	*136 J*	*47.7 J*	*25*	--	*ND*	NA	*107 J*	*66.4 J*	*134*	--	*16.2 J*	NA	*50.3 J*	*113 J*	*132*	--	*55.2 J*	NA
Total VOCs	**--**	19	13	ND	ND	ND	ND	NA	89	46	3.6	16	ND	ND	NA	43	12	180	ND	2.9	NA	10	24	77	18	7.1	NA
TCL Semi-Volatile Organic Compounds (SVO																											
2-Methylnaphthalene [3]	**--**	ND	ND	0.03 J	ND	ND	ND < 0.02	ND < 0.02	3.2 J	ND	0.03 J	0.03 J	ND	ND < 0.02	ND < 0.02	ND	ND	ND	0.03 J	ND < 0.02	ND < 0.02	ND	0.04 J	ND	0.04 J	0.03 J	ND < 0.02
2-Chloronaphthalene [3]	**10 ***	ND	ND	0.02 J	ND	ND	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND < 0.02	ND < 0.02
Acenaphthene [3]	**20 ***	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	0.06 J	0.18	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND < 0.01	ND < 0.01	0.07 J	0.06 J	ND	ND	ND < 0.01	ND < 0.01
Acenaphthylene [3]	**--**	ND	ND	0.02 J	ND	0.02 J	ND < 0.01	ND < 0.01	ND	ND	0.05 J	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	0.04 J	ND	0.03 J	ND < 0.01	ND < 0.01
Anthracene [3]	**50 ***	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	0.02 J	ND	0.02 J	0.02 J	ND < 0.01	ND < 0.01	ND	ND	ND	0.02 J	ND < 0.01	ND < 0.01	ND	ND	0.05 J	0.04 J	0.01 J	ND < 0.01
Benzo(a)anthracene [3]	**0.002 ***	ND	ND	ND	ND	**0.05 J**	ND < 0.02	ND < 0.02	ND	ND	ND	ND	**0.03 J**	ND < 0.02	ND < 0.02	ND	ND	ND	**0.03 J**	ND < 0.02	ND < 0.02	ND	ND	**0.02 J**	**0.04 J**	ND < 0.02	ND < 0.02
Benzo(a)pyrene [3]	**ND**	ND	ND	**0.05 J**	ND	**0.05 J**	ND < 0.02	ND < 0.02	ND	ND	**0.02 J**	ND	ND	ND < 0.02	ND < 0.02	ND	**0.02 J**	ND	ND	ND < 0.02	ND < 0.02	ND	**0.04 J**	ND	**0.02 J**	ND < 0.02	ND < 0.02
Benzo(b)fluoranthene [3]	**0.002 ***	ND	ND	ND	ND	**0.1 J**	**0.03 J**	ND < 0.01	ND	ND	ND	ND	ND	**0.02 J**	ND < 0.01	ND	ND	ND	ND	**0.01 J**	ND < 0.01	ND	ND	ND	**0.03 J**	ND < 0.01	ND < 0.01
Benzo(k)fluoranthene [3]	**0.002 ***	ND	ND	ND	ND	**0.03 J**	**0.01 J**	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	**0.01 J**	ND < 0.01	ND < 0.01
Benzo(ghi)perylene [3]	**--**	ND	ND	ND	ND	0.08 J	0.03 J	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	0.02 J	ND < 0.01	ND < 0.01
Bis(2-ethylhexyl) phthalate	**5**	ND	ND	1.7 J	ND	**23 J**	ND < 1.5	**00044 J+**	ND	ND	1.9 J	2.9 J	**100**	**78**	3.5	ND	1.7 J	**6.4**	**23**	**13**	4	ND	ND	1.7 J	4.3	ND < 1.5	ND < 1.5
Chrysene [3]	**0.002 ***	ND	ND	**0.04 J**	ND	**0.05 J**	ND < 0.01	ND < 0.01	ND	ND	**0.02 J**	ND	**0.02 J**	**0.15**	ND < 0.01	ND	**0.02 J**	ND	**0.01 J**	**0.04 J**	ND < 0.01	ND	**0.04 J**	**0.03 J**	**0.03 J**	ND < 0.01	ND < 0.01
Dibenzo(a,h)anthracene [3]	**--**	ND	ND	0.03 J	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	0.03 J	ND	ND	ND < 0.01	ND < 0.01
Diethyl phthalate	**50 ***	0.25 J	ND	ND	ND	ND	ND < 0.38	ND < 0.38	ND	ND	ND	ND	ND	ND < 0.38	ND < 0.38	ND	ND	ND	ND	ND < 0.38	ND < 0.38	ND	ND	ND	ND	ND < 0.38	ND < 0.38
Di-n-butylphthalate	**50**	ND	ND	ND	ND	ND	ND < 0.39	ND < 0.39	ND	ND	ND	ND	ND	ND < 0.39	ND < 0.39	2.6 J	ND	ND	ND	ND < 0.39	ND < 0.39	ND	ND	ND	ND	ND < 0.39	ND < 0.39
Di-n-octyl phthalate	**50 ***	ND	ND	ND	ND	ND	ND < 1.3	ND < 1.3	ND	ND	ND	ND	ND	ND < 1.3	ND < 1.3	ND	ND	ND	ND	ND < 1.3	ND < 1.3	ND	ND	ND	ND	ND < 1.3	ND < 1.3
Fluorene [3]	**50 ***	ND	ND	0.03 J	ND	ND	ND < 0.01	ND < 0.01	ND	0.26	0.33	0.04 J	0.03 J	ND < 0.01	0.07 J	ND	0.06 J	ND	0.05 J	ND < 0.01	ND < 0.01	0.04 J	0.3	ND	0.16	0.02 J	ND < 0.01
Fluoranthene [3]	**50 ***	ND	ND	ND	ND	0.07 J	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND	ND < 0.02	ND < 0.02	ND	ND	ND	ND	ND < 0.02	ND < 0.02	ND	ND	ND	0.04 J	ND < 0.02	ND < 0.02
Hexachlorobenzene [3]	**0.04**	ND	ND	**0.04 J**	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND < 0.01	ND < 0.01
Indeno(1,2,3-cd)pyrene [3]	**0.002 ***	ND	ND	ND	ND	**0.08 J**	**0.03 J**	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	**0.02 J**	ND < 0.01	ND < 0.01
Naphthalene [3]	**10 ***	ND	ND	ND	ND	ND	ND < 0.05	ND < 0.05	ND	0.09 J	0.07 J	0.07 J	ND	ND < 0.05	ND < 0.05	ND	ND	ND	ND	ND < 0.05	ND < 0.05	0.09 J	0.07 J	ND	0.11	0.07 J	ND < 0.05
Pentachlorophenol [3]	**1**	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	ND	ND	ND	ND < 0.01	ND < 0.01	ND	0.18 J	ND	ND	ND < 0.01	0.12 J
Phenanthrene [3]	**50 ***	ND	ND	0.06 J	ND	0.03 J	ND < 0.02	ND < 0.02	2.8 J	0.09 J	ND	0.04 J	0.05 J	ND < 0.02	ND < 0.02	ND	ND	ND	0.08 J	ND < 0.02	ND < 0.02	ND	0.2	0.03 J	0.1 J	ND < 0.02	ND < 0.02
Pyrene [3]	**50 ***	ND	ND	ND	ND	0.07 J	ND < 0.02	ND < 0.02	ND	ND	ND	ND	0.02 J	0.12	ND < 0.02	ND	ND	ND	0.02 J	0.02 J	ND < 0.02	ND	ND	0.03 J	0.06 J	ND < 0.02	ND < 0.02
Total TICs	--	--	*31.0 J*	*5.48 J*	*4.73 J*	--	*44.0 J*	*2.91 J*	--	*49.9 J*	*40.7 J*	*53.6 J*	--	*139 J*	*36.90 J*	*32.6 J*	*62.8 J*	*26.3 J*	--	*231 J*	*4.62 J*	*33.4 J*	*76.0 J*	*73.1 J*	--	*167 J*	*139 J*
Total SVOCs	**--**	0.25	ND	2.0	ND	24	0.10	44	6.0	0.26	2.6	3.1	100	78	3.6 J	2.6	1.8	6.4	23	13	4.0	0.2	1.0	1.9	5.1	0.13	0.12 J

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS).
3. SVOCs results obtained using Method 1,870D-SIM, during the July 2019, December 2019, June 2020, December 2020, June 2021, June 2022 sampling events.

Definitions:

ND = Parameter not detected above laboratory method detection limit (MDL).
ND<0.01 = Parameter not detected above MDL listed.
NA = Parameter not analyzed
"--" = No GWQS available.
" * " = Groundwater Quality Guidance Value
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
J+= the analyte was positively identified; the associated numerical value is an estimated quanitity that may be biased high.

BOLD	= Sample result exceeds NYSDEC Class GA GWQS
12/8/2015	= Samples collected pre-remediation.

BENCHMARK TURNKEY

TABLE 3
SUMMARY OF SVE WELL PID READINGS

PERIODIC REVIEW REPORT
229 HOMER STREET SITE
OLEAN, NEW YORK

	PID (ppm)														System
Date	SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	SVE-6	SVE-7	SVE-8	SVE-9	SVE-10	SVE-11	SVE-12	SVE-13	SVE-14	PID
9/13/2018		167	97	26	160	111	86	142	57	94	17	270	18	5	215
9/20/2018	73	20	210	32	160	311	180	215	102	62	12	122	49	5	575
10/24/2018	1	1	11	105	13	8	68	125	12	5	2	35	8	1	199
12/4/2018	3.5	0.4	0.3	0.4	1.6	2.5	47	4.3	0.6	0.8	0.3	0.9	0.3	10	34
4/24/2019	11.5	8.1	12.5	15.7	15.8	12	37.7	6.1	4.2	0.5	0.2	4.1	1.5	0.5	21
7/16/2019	0	0.2	0.5	2.1	0.7	1	12.2	8.6	0.7	0	0.1	4.2	0	0.1	24
9/4/2019	NA	NA	5.1	12.3	11.4	15.7	7	3.1	1.7	21.2	0	5	0	0.2	62
4/10/2020	0.2	0.7	0.1	1.3	0.2	1.8	8.1	0	0.1	1	0	0.1	0.4	0	6
6/8/2020	0.7	0.3	0.7	1.2	4.8	3.3	2.9	5.1	2.8	3.4	1.7	2.3	4.7	2.8	14
6/15/2020	19.5	13.5	49	11.7	39.1	16.6	72.3	40.3	27.6	32.7	44.4	23.3	92.4	9.2	224
8/10/2020	24.6	14	26.9	45.2	40.1	30.8	100.8	27.4	34.2	15.1	30.8	13.6	52.7	20.3	179
10/8/20	34.2	22.4	37.1	23.4	27.3	26.1	27.7	4.9	25.9	27.7	10.5	26.6	55.6	12.8	221
10/26/20	1.5	2.4	6.5	2.7	2	4	2.7	1	5.2	7.4	2.9	1.5	4.4	4	33
12/14/20	0.7	0.6	0.9	0.5	0.4	2.1	0.9	0.6	2	1.5	0.8	0.9	1.8	0.9	6
4/22/21	0.5	0.4	0.3	0.2	1	0.6	4.1	0.4	3.3	1	1.9	2.8	2.4	0.6	10
6/24/21	0.2	0.1	0.3	0	0.3	0.2	2	0.6	1.1	0.5	0.1	0.1	1	0.2	2
8/23/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/22	1.3	0	0	13.7	0	0.8	0	0	0	0	0	0	0	0	off
8/4/22	0.7	0	0	21.6	5.6	0	0	1.3	0	0	0	0	0	0	off
11/10/22	0	0	0	43.1	24.1	6	0.7	2.5	0	0	0	0.5	0	0	off
2/22/23	0	0	0	4.7	5.7	1	0	0.5	0	0	0	0	0	0	off

= PID values collected pre SVE system shutoff

BENCHMARK TURNKEY

TABLE 4
SUMMARY OF VOC (TO-15) AIR ANALYTICAL DATA

PERIODIC REVIEW REPORT
229 HOMER STREET SITE
OLEAN, NEW YORK

Parameter [1]	Sample Date 2/21/2023	
	SVE Well ID	
	SVE-7	SVE-8
Volatile Organics Compounds (VOCs) - ug/m [3]		
4-Methyl-2-Pentanone	3.87	ND<2.05
Acetone	4.2	26.1
Chloromethane	0.752	0.89
Cyclohexane	1.79	1.33
Dichlorodifluoromethane	8.01	4.64
Heptane	11	ND<0.820
n-Hexane	9.59	1.25
Tetrahydrofuran	11.9	ND<1.47
Toluene	ND<0.754	7.69
2,2,4-Trimethylpentane	ND<0.934	4.65

Notes:

1. Only those parameters detected above the reporting limit (RL) are presented in table.

Definitions:

ND<1.47 = Parameter not detected above laboratory RL.

"--" = No value available for the parameter

BOLD

APPENDIX A

IC/EC CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C905044

Site Name 229 Homer Street

Site Address: 229 Homer Street Zip Code: 14760
City/Town: Olean
County: Cattaraugus
Site Acreage: 3.340

Reporting Period: April 28, 2022 to April 28, 2023

	YES	NO
1. Is the information above correct?	☑	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☑
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☑	☐

Discharge permit was issued but discontinued on May 19, 2022.

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?	☐	☑

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☑	☐
7. Are all ICs in place and functioning as designed?	☑	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☑

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☑	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C905044 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
94.032-1-2.5	Homer Street Properties, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
94.032-1-2.5	Cover System Air Sparging/Soil Vapor Extraction (Shutdown approved 5/5/22)

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☑	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☑	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C905044

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Don Benson (print name) at Homer Street Properties, LLC 130 South Union Street, Suite 300, Olean, NY 14760 (print business address),

am certifying as Owner (Owner or Remedial Party)

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

R. Donald Benson — Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4/28/2023 — Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Lori E. Riker, P.E. (print name) at Benchmark Civil/Environmental Engineering & Geology, PLLC, 2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218 (print business address),

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

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

Stamp (Required for PE)

4/28/23 — Date

APPENDIX B

SITE PHOTOGRAPHIC LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

March 9, 2023 Site Visit

Photo 1: Stone cover along the northeastern property boundary looking northwest.

Photo 2: Stone cover along the northwestern boundary looking northeast.

Photo 3: Stone cover along southwestern boundary looking northwest.

Photo 4: Stone cover along the southeastern boundary looking northeast, rip rap within swale in place. No erosion issues noted.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

March 9, 2023 Site Visit

Photo 5: Concrete conditions inside the on-site building.

Photo 6: Site conditions on northeast side of building (looking southwest at on-site building).

Photo 7: Concrete cover on southwest side of existing building, looking east.

Photo 8: From left to right, biofilter, SVE treatment trailer, and AS treatment trailer (looking northwest).

APPENDIX C

GROUNDWATER SAMPLING FIELD FORMS, ANALYTICAL DATA & DUSR

GROUNDWATER FIELD FORM

Project Name: 229 Homer Street Site (Homer Street Redevelopment LLC) Date:
Location: Olean, NY Project No.: T0311-018-001 Field Team: CEH

Well No. MW-1

Product Depth (fbTOR):		Diameter (inches 2"	Sample Date / Time: 6-21-22 / 1520
DTW (static) (fbTOR): 9.87		Water Column (ft): 8.35	DTW when sampled: 11.34
Total Depth (fbTOR): 18.22		One Well Volume (gal): 1.36	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
		Total Volume Purged (gal): 7.00	Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1452	0	Initial	0.00	6.97	20.2	513.4	346	1.23	-126	Turbid, no color
1454	1	11.41	0.50	6.91	17.6	510.4	262	1.23	-116	" " "
1456	2	11.39	1.00	6.84	16.4	573.7	171	1.53	-100	" " "
1458	3	11.36	1.50	6.82	16.3	605.3	139	2.05	-100	SL Turbid, no color
1459	4	11.35	2.00	6.81	15.7	645.7	108	1.23	-97	" " "
1500	5	11.30	2.50	6.80	15.1	709.6	286	1.39	-97	Turbid, no odor
1506	6	11.30	4.00	6.82	16.6	749.6	127	0.88	-95	SL Turbid, no odor
1513	7	11.26	5.50	6.93	16.5	762.7	142	1.58	-94	SL Turbid, no odor
	8									
	9									
	10									
Sample Information:										
1520	S1	11.34	7.00	6.85	14.9	763.4	141	1.07	-92	SL Turbid, no odor
1525	S2	11.23	7.50	6.90	15.0	775.0	91.8	1.38	-91	" " "

Well No. MW-2

Product Depth (fbTOR):		Diameter (inches 2"	Sample Date / Time: 6-21-22 / 1250
DTW (static) (fbTOR): 11.16		Water Column (ft): 6.4	DTW when sampled: 11.11
Total Depth (fbTOR): 17.56		One Well Volume (gal): 1.04	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
		Total Volume Purged (gal): 4.00	Purge Method: Bailer

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1208	0	Initial	0.00	7.03	18.6	1665	65.0	1.82	-82	Clear, no odor
1219	1	11.06	1.00	7.17	18.2	1430	226	1.42	-115	SL turbid, no odor
1230	2	11.15	2.00	7.19	23.8	1358	1303	1.84	-126	Clear, no odor
1240	3	11.11	3.00	7.18	21.9	1286	134	1.74	-142	clear, no odor
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1250	S1	11.10	3.50	7.29	18.7	1251	134	1.77	-124	clear, no odor
1253	S2	11.11	4.00	7.14	14.7	1240	92.2	1.99	-121	clear, no odor

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: 229 Homer Street Site (Homer Street Redevelopment LLC) Date:

Location: Olean, NY Project No.: T0311-018-001 Field Team: CEH

Well No. MW-3			Diameter (inches 2"			Sample Date / Time: 6-21-22 / 1110			
Product Depth (fbTOR):			Water Column (ft): 7.94			DTW when sampled: 11.20			
DTW (static) (fbTOR): 10.78			One Well Volume (gal): 1.29			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 18.72			Total Volume Purged (gal): 5.50			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1048	0 Initial	0.00	6.30	17.5	449.1	>1000	1.36	-18	Turbid, no odor
1051	1 11.35	0.50	6.41	16.3	599.0	177	1.47	-50	SL Turbid, no odor
1054	2 11.35	1.00	6.57	17.0	621.3	187	1.21	-69	" " " "
1057	3 11.36	1.50	6.61	16.7	632.1	62.7	1.47	-73	Clear, no odor
1100	4 11.20	2.50	6.65	15.8	645.0	40.3	1.69	-75	" " "
1102	5 11.28	3.00	6.64	15.6	645.5	26.7	1.35	-75	" " "
1104	6 11.24	3.50	6.66	15.7	655.2	18.0	1.60	-76	" " "
1106	7 11.20	4.00	6.67	15.6	653.7	24.7	1.50	-74	" " "
	8								
	9								
	10								
Sample Information:									
1110	S1 11.20	4.50	6.63	16.3	658.1	14.8	1.31	-75	Clear, no odor
1114	S2 11.25	5.50	6.73	16.5	659.9	13.9	1.68	-77	" " "

Well No. MW-4			Diameter (inches 2"			Sample Date / Time: 6-21-22 / 1025			
Product Depth (fbTOR):			Water Column (ft): 0.09			DTW when sampled: 12.40			
DTW (static) (fbTOR): 10.03			One Well Volume (gal): 1.48			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 19.12			Total Volume Purged (gal): 8.50			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1000	0 Initial	0.00	6.25	16.9	262.4	>1000	2.58	108	Turbid, no odor
1002	1 11.50	0.25	6.22	14.2	277.6	>1000	2.55	118	" " "
1004	2 12.06	0.50	6.20	14.6	318.3	>1000	2.01	116	" " "
1006	3 12.30	1.00	6.28	14.1	318.1	>1000	2.42	111	" " "
1008	4 12.27	1.50	6.28	14.5	330.1	>1000	2.66	98	" " "
1009	5 12.22	2.00	6.31	13.7	335.6	>1000	2.15	83	" " "
1019	6 12.18	4.50	6.43	15.8	338.4	538	1.65	60	" " "
1023	7 12.16	5.50	6.36	16.1	341.6	449	2.15	47	" " "
1024	8 12.18	6.50	6.38	14.9	346.4	211	1.66	42	SL Turbid, no odor
	9								
	10								
Sample Information:									
1025	S1 12.40	7.50	6.37	14.8	344.7	276	2.44	36	SL Turbid, no odor
1033	S2 12.20	8.50	6.38	15.1	349.4	234	2.68	28	" " " "

REMARKS: Took MS/MSD with MW-4 @ 1025

Took BD with MW-3 0800

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: 229 Homer Street Site (Homer Street Redevelopment LLC) Date: 6-21-22

Location: Olean, NY Project No.: T0311-018-001 Field Team: CEH

Well No. MW-5			Diameter (inches 2"			Sample Date / Time: 6-21-22 / 1425			
Product Depth (fbTOR):			Water Column (ft): ~~12.10~~ 6.99			DTW when sampled: 12.50			
DTW (static) (fbTOR): ~~6.99~~ 12.10			One Well Volume (gal): 1.14			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 19.09			Total Volume Purged (gal): 6.50			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1412	0 Initial	0.00	7.20	19.4	1223	>1000	1.28	-111	Turbid, no odor
1414	1 12.50	0.50	7.02	16.8	1149	187	0.90	-108	SL Turbid, " "
1416	2 12.58	1.00	6.94	16.1	1199	72.2	1.14	~103	clear, no odor
1417	3 12.59	2.00	6.92	15.0	1218	49.2	1.10	-100	" " "
1419	4 12.53	3.00	6.91	14.6	1226	16.3	0.94	-98	" " "
1420	5 12.54	3.50	6.89	14.7	1224	22.9	1.10	-97	" " "
1423	6 12.51	4.50	6.86	15.6	1221	11.6	1.02	-95	" " "
	7								
	8								
	9								
	10								
Sample Information:									
1425	S1 12.50	5.50	6.85	16.0	1220	15.4	1.28	-96	clear, no odor
1427	S2 12.67	6.50	6.81	15.8	1204	40.7	1.05	-95	" " "

Well No. MW-6			Diameter (inches 2"			Sample Date / Time: 6-21-22 / 1155			
Product Depth (fbTOR):			Water Column (ft): 8.52			DTW when sampled: 12.68			
DTW (static) (fbTOR): 9.85			One Well Volume (gal): 1.39			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 18.37			Total Volume Purged (gal): 8.00			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1128	0 Initial	0.00	7.04	20.5	548.9	314	1.12	-108	SL Turbid, no odor
1130	1 11.75	0.50	6.95	17.6	559.4	516	1.44	-101	Turbid, no odor
1131	2 11.82	1.00	6.91	16.3	556.4	>1000	0.89	-99	" " "
1141	3 12.25	2.50	6.88	18.3	578.3	>1000	0.82	-96	" " "
1148	4 12.38	5.00	6.44	17.5	598.7	274	1.02	-96	SL Turbid, no odor
1150	5 12.66	6.00	6.88	18.1	591.0	572	1.02	-95	Turbid, no odor
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1155	S1 12.68	7.00	6.89	16.8	593.3	391	1.01	-90	Turbid, no odor
1158	S2 11.57	8.00	6.93	15.9	591.3	131	1.29	-88	SL Turbid, no odor

REMARKS: water in casing of MW-5

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: 229 Homer Street Site (Homer Street Redevelopment LLC) Date:

Location: Olean, NY Project No.: T0311-018-001 Field Team: CEH

Well No. MW-7			Diameter (inches 2"			Sample Date / Time: 6.21-22 / 1355			
Product Depth (fbTOR):			Water Column (ft): 7.62			DTW when sampled: 12.38			
DTW (static) (fbTOR): 11.15			One Well Volume (gal): 1.24			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 18.77			Total Volume Purged (gal): 7.00			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1338	0 Initial	0.00	7.26	18.5	1780	>1000	0.25	-205	Turbid, no odor
1339	1 12.14	0.50	7.02	15.4	1730	>1000	0.20	-161	" " "
1342	2 12.21	1.50	6.95	14.8	1654	>1000	0.63	-135	" " "
1344	3 12.32	2.50	6.91	14.6	1596	>1000	0.86	-125	" " "
1347	4 12.35	3.50	6.88	15.2	1535	>1000	0.76	-121	" " "
1349	5 12.31	4.50	6.87	14.6	1516	>1000	0.79	-117	" " "
1351	6 12.28	5.50	6.82	15.8	1480	>1000	0.52	-117	" " "
	7								
	8								
	9								
	10								
Sample Information:									
1355	S1 12.38	6.50	6.91	14.3	1469	>1000	0.80	-111	Turbid, no odor
1357	S2 12.36	7.00	6.94	14.6	1456	>1000	0.77	-109	" " "

Well No.			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: 251 Homer Street (Olean Solar Land)

Project No.:

Client:

Date:

Instrument Source: [X] BM [ ] Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
[X] pH meter	units	0900	Myron L Company Ultra Meter 6P	6213516 [ ] 6243084 [X] 6212375 [ ] 6223973 [ ]	CEH	4.00 7.00 10.01	3.99 7.04 10.02	
[X] Turbidity meter	NTU	0900	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) [ ] 17110C026619 [X] 13120C030432 (Q) [ ]	CEH	< 0.4 or 10 for 2100 Q 20 100 800	9.67	
[ ] Turbidity meter	NTU		LaMotte 2020	6523-1816 (La) [ ]		0.0 NTU 1.0 NTU 10.0 NTU		
[X] Sp. Cond. meter	uS mS	0900	Myron L Company Ultra Meter 6P	6213516 [ ] 6243084 [X] 6212375 [ ] 6223973 [ ]	CEH	7000 mS @ 25 °C	7005	
[ ] PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
[X] Dissolved Oxygen	ppm	0900	HACH Model HQ30d	080700023281 [ ] 100500041867 [ ] 1402000100319 [ ]	CEH	100% Satuartion	100%	
[ ] Particulate meter	mg/m^3					zero air		
[ ] Oxygen	%					open air		
[ ] Hydrogen sulfide	ppm					open air		
[ ] Carbon monoxide	ppm					open air		
[ ] LEL	%					open air		
[ ] Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: **DATE:**

ANALYTICAL REPORT

Lab Number:	L2233249
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Lori Riker
Phone:	(716) 856-0599
Project Name:	229 HOMER STREET
Project Number:	0311-018-001
Report Date:	07/07/22

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: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2233249-01	MW-1	WATER	OLEAN, NY	06/21/22 15:20	06/22/22
L2233249-02	MW-2	WATER	OLEAN, NY	06/21/22 12:50	06/22/22
L2233249-03	MW-3	WATER	OLEAN, NY	06/21/22 11:10	06/22/22
L2233249-04	MW-4	WATER	OLEAN, NY	06/21/22 10:25	06/22/22
L2233249-05	MW-5	WATER	OLEAN, NY	06/21/22 14:25	06/22/22
L2233249-06	MW-6	WATER	OLEAN, NY	06/21/22 11:55	06/22/22
L2233249-07	MW-7	WATER	OLEAN, NY	06/21/22 13:55	06/22/22
L2233249-08	BLIND DUP	WATER	OLEAN, NY	06/21/22 08:00	06/22/22

Project Name:	229 HOMER STREET	**Lab Number:**	L2233249
Project Number:	0311-018-001	**Report Date:**	07/07/22

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: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

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.

Semivolatile Organics

The WG1655211-1 Method Blank, associated with L2233249-01 through -08, has TIC(s) detected. The results are qualified with a "B" for any associated samples that have detections of the same TIC(s).

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: Steven Gniadek

Title: Technical Director/Representative Date: 07/07/22

ORGANICS

SEMIVOLATILES

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-01
Client ID: MW-1
Sample Location: OLEAN, NY

Date Collected: 06/21/22 15:20
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 08:54
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	12.		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 229 HOMER STREET **Lab Number:** L2233249

Project Number: 0311-018-001 **Report Date:** 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-01 Date Collected: 06/21/22 15:20

Client ID: MW-1 Date Received: 06/22/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Tentatively Identified Compounds						
Total TIC Compounds	6.58	J	ug/l			1
Unknown	2.87	JB	ug/l			1
Unknown	3.71	JB	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	80		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-01
Client ID: MW-1
Sample Location: OLEAN, NY

Date Collected: 06/21/22 15:20
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/26/22 13:38
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-01
Client ID: MW-1
Sample Location: OLEAN, NY
Date Collected: 06/21/22 15:20
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	62		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-02
Client ID: MW-2
Sample Location: OLEAN, NY

Date Collected: 06/21/22 12:50
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 09:16
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.2	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-02
Client ID: MW-2
Sample Location: OLEAN, NY
Date Collected: 06/21/22 12:50
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-02
Client ID: MW-2
Sample Location: OLEAN, NY
Date Collected: 06/21/22 12:50
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	46.4	J	ug/l			1
Unknown	2.65	JB	ug/l			1
Unknown	2.94	J	ug/l			1
Unknown	3.67	J	ug/l			1
Unknown	2.40	J	ug/l			1
Unknown	2.18	J	ug/l			1
Unknown	1.96	J	ug/l			1
Unknown	2.14	J	ug/l			1
Unknown	6.84	J	ug/l			1
Unknown	4.22	J	ug/l			1
Unknown	2.62	J	ug/l			1
Unknown	2.04	J	ug/l			1
Unknown	2.29	J	ug/l			1
Unknown Ketone	3.49	J	ug/l			1
Unknown Organic Acid	3.78	J	ug/l			1
Unknown Organic Acid	3.20	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	95		10-120
4-Terphenyl-d14	73		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-02
Client ID: MW-2
Sample Location: OLEAN, NY

Date Collected: 06/21/22 12:50
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/26/22 13:54
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.07	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.04	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.05	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.06	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.04	J	ug/l	0.10	0.01	1
Fluorene	0.07	J	ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01	1
Pyrene	0.06	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 229 HOMER STREET
Lab Number: L2233249
Project Number: 0311-018-001
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-02
Client ID: MW-2
Sample Location: OLEAN, NY
Date Collected: 06/21/22 12:50
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	54		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-03
Client ID: MW-3
Sample Location: OLEAN, NY

Date Collected: 06/21/22 11:10
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 09:38
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 229 HOMER STREET **Lab Number:** L2233249

Project Number: 0311-018-001 **Report Date:** 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-03 Date Collected: 06/21/22 11:10

Client ID: MW-3 Date Received: 06/22/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds				
Total TIC Compounds	28.6	J	ug/l	1
Unknown	2.73	JB	ug/l	1
Unknown	2.22	J	ug/l	1
Unknown	1.74	J	ug/l	1
Unknown	1.71	J	ug/l	1
Unknown	4.80	J	ug/l	1
Unknown	2.29	J	ug/l	1
Unknown	1.71	J	ug/l	1
Unknown	1.49	J	ug/l	1
Unknown	1.82	J	ug/l	1
Unknown	4.00	J	ug/l	1
Unknown	1.56	J	ug/l	1
Unknown Organic Acid	2.51	J	ug/l	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-03
Client ID: MW-3
Sample Location: OLEAN, NY
Date Collected: 06/21/22 11:10
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	72		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-03
Client ID: MW-3
Sample Location: OLEAN, NY

Date Collected: 06/21/22 11:10
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/26/22 14:11
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.07	J	ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 229 HOMER STREET
Lab Number: L2233249
Project Number: 0311-018-001
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-03
Client ID: MW-3
Sample Location: OLEAN, NY
Date Collected: 06/21/22 11:10
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	56		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-04
Client ID: MW-4
Sample Location: OLEAN, NY

Date Collected: 06/21/22 10:25
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 10:46
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	44.		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 229 HOMER STREET **Lab Number:** L2233249

Project Number: 0311-018-001 **Report Date:** 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-04 Date Collected: 06/21/22 10:25

Client ID: MW-4 Date Received: 06/22/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Tentatively Identified Compounds						
Total TIC Compounds	2.91	J	ug/l			1
Unknown	2.91	JB	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	73		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-04
Client ID: MW-4
Sample Location: OLEAN, NY

Date Collected: 06/21/22 10:25
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/26/22 14:27
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-04
Client ID: MW-4
Sample Location: OLEAN, NY
Date Collected: 06/21/22 10:25
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	56		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-05
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 06/21/22 14:25
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 11:08
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	3.5		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-05
Client ID: MW-5
Sample Location: OLEAN, NY
Date Collected: 06/21/22 14:25
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-05
Client ID: MW-5
Sample Location: OLEAN, NY
Date Collected: 06/21/22 14:25
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	36.9	J	ug/l			1
Unknown	3.42	JB	ug/l			1
Unknown	2.00	J	ug/l			1
Unknown	1.74	J	ug/l			1
Unknown	2.40	J	ug/l			1
Unknown	3.42	JB	ug/l			1
Unknown	1.89	J	ug/l			1
Unknown	2.98	J	ug/l			1
Unknown	2.91	J	ug/l			1
Unknown	1.56	J	ug/l			1
Unknown	2.29	J	ug/l			1
Unknown	2.51	J	ug/l			1
Unknown	1.56	J	ug/l			1
Unknown	2.07	J	ug/l			1
Unknown Organic Acid	3.05	J	ug/l			1
Unknown Organic Acid	3.09	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	90		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-05
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 06/21/22 14:25
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/26/22 15:16
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.07	J	ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 229 HOMER STREET
Lab Number: L2233249
Project Number: 0311-018-001
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-05
Client ID: MW-5
Sample Location: OLEAN, NY
Date Collected: 06/21/22 14:25
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	60		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-06
Client ID: MW-6
Sample Location: OLEAN, NY

Date Collected: 06/21/22 11:55
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 13:23
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	4.0		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-06
Client ID: MW-6
Sample Location: OLEAN, NY
Date Collected: 06/21/22 11:55
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Tentatively Identified Compounds						
Total TIC Compounds	4.62	J	ug/l			1
Unknown	2.91	JB	ug/l			1
Unknown Organic Acid	1.71	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	75		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-06
Client ID: MW-6
Sample Location: OLEAN, NY

Date Collected: 06/21/22 11:55
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/26/22 15:33
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-06
Client ID: MW-6
Sample Location: OLEAN, NY
Date Collected: 06/21/22 11:55
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	56		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-07
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 06/21/22 13:55
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 13:46
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-07
Client ID: MW-7
Sample Location: OLEAN, NY
Date Collected: 06/21/22 13:55
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 229 HOMER STREET **Lab Number:** L2233249

Project Number: 0311-018-001 **Report Date:** 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-07 Date Collected: 06/21/22 13:55

Client ID: MW-7 Date Received: 06/22/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	139	J	ug/l			1
Unknown	3.96	J	ug/l			1
Unknown	3.96	J	ug/l			1
Unknown	4.25	J	ug/l			1
Unknown	4.44	J	ug/l			1
Unknown	8.22	J	ug/l			1
Unknown	16.0	J	ug/l			1
Unknown Organic Acid	7.38	J	ug/l			1
Unknown	5.05	J	ug/l			1
Unknown	10.6	J	ug/l			1
Unknown	13.4	J	ug/l			1
Unknown	13.4	J	ug/l			1
Unknown Ketone	7.85	J	ug/l			1
Unknown	5.31	J	ug/l			1
Unknown	6.69	J	ug/l			1
Unknown	28.9	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	76		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-07
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 06/21/22 13:55
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/07/22 12:57
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	0.12	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-07
Client ID: MW-7
Sample Location: OLEAN, NY
Date Collected: 06/21/22 13:55
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		21-120
Phenol-d6	74		10-120
Nitrobenzene-d5	**138**	Q	23-120
2-Fluorobiphenyl	104		15-120
2,4,6-Tribromophenol	**145**	Q	10-120
4-Terphenyl-d14	118		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-08
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 06/21/22 08:00
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 14:09
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-08
Client ID: BLIND DUP
Sample Location: OLEAN, NY
Date Collected: 06/21/22 08:00
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-08
Client ID: BLIND DUP
Sample Location: OLEAN, NY
Date Collected: 06/21/22 08:00
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	52.4	J	ug/l			1
Unknown	2.94	JB	ug/l			1
Unknown	2.00	J	ug/l			1
Unknown	2.47	J	ug/l			1
Unknown	1.49	J	ug/l			1
Unknown	4.58	J	ug/l			1
Unknown	2.11	J	ug/l			1
Unknown	2.00	J	ug/l			1
Unknown	1.78	J	ug/l			1
Unknown	1.74	J	ug/l			1
Unknown	4.36	J	ug/l			1
Unknown	2.07	J	ug/l			1
Unknown Organic Acid	1.49	J	ug/l			1
Unknown Organic Acid	1.53	J	ug/l			1
Unknown Organic Acid	12.6	J	ug/l			1
Unknown Organic Acid	9.24	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	95		10-120
4-Terphenyl-d14	75		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-08
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 06/21/22 08:00
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/26/22 16:06
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.07	J	ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 229 HOMER STREET
Lab Number: L2233249
Project Number: 0311-018-001
Report Date: 07/07/22

SAMPLE RESULTS

Lab ID: L2233249-08
Client ID: BLIND DUP
Sample Location: OLEAN, NY
Date Collected: 06/21/22 08:00
Date Received: 06/22/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	57		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/28/22 23:32
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1655211-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/28/22 23:32
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1655211-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	11.0	J	ug/l
Unknown	6.44	J	ug/l
Unknown	2.62	J	ug/l
Unknown	1.96	J	ug/l

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/28/22 23:32
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1655211-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	53		41-149

Project Name: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/26/22 10:21
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG1655213-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/26/22 10:21
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 06/25/22 00:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG1655213-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	70		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 229 HOMER STREET

Project Number: 0311-018-001

Lab Number: L2233249

Report Date: 07/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1655211-2 WG1655211-3								
Bis(2-chloroethyl)ether	68		69		40-140	1		30
3,3'-Dichlorobenzidine	45		51		40-140	13		30
2,4-Dinitrotoluene	91		92		48-143	1		30
2,6-Dinitrotoluene	93		94		40-140	1		30
4-Chlorophenyl phenyl ether	70		74		40-140	6		30
4-Bromophenyl phenyl ether	71		77		40-140	8		30
Bis(2-chloroisopropyl)ether	74		80		40-140	8		30
Bis(2-chloroethoxy)methane	72		74		40-140	3		30
Hexachlorocyclopentadiene	67		74		40-140	10		30
Isophorone	63		65		40-140	3		30
Nitrobenzene	71		73		40-140	3		30
NDPA/DPA	68		73		40-140	7		30
n-Nitrosodi-n-propylamine	61		64		29-132	5		30
Bis(2-ethylhexyl)phthalate	72		81		40-140	12		30
Butyl benzyl phthalate	72		73		40-140	1		30
Di-n-butylphthalate	66		72		40-140	9		30
Di-n-octylphthalate	68		75		40-140	10		30
Diethyl phthalate	70		75		40-140	7		30
Dimethyl phthalate	80		79		40-140	1		30
Biphenyl	74		76		40-140	3		30
4-Chloroaniline	41		51		40-140	22		30
2-Nitroaniline	96		100		52-143	4		30
3-Nitroaniline	72		74		25-145	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1655211-2 WG1655211-3								
4-Nitroaniline	82		88		51-143	7		30
Dibenzofuran	68		71		40-140	4		30
1,2,4,5-Tetrachlorobenzene	69		73		2-134	6		30
Acetophenone	63		67		39-129	6		30
2,4,6-Trichlorophenol	71		72		30-130	1		30
p-Chloro-m-cresol	67		67		23-97	0		30
2-Chlorophenol	68		71		27-123	4		30
2,4-Dichlorophenol	75		76		30-130	1		30
2,4-Dimethylphenol	32		31		30-130	3		30
2-Nitrophenol	93		97		30-130	4		30
4-Nitrophenol	54		51		10-80	6		30
2,4-Dinitrophenol	99		103		20-130	4		30
4,6-Dinitro-o-cresol	107		111		20-164	4		30
Phenol	42		43		12-110	2		30
2-Methylphenol	54		56		30-130	4		30
3-Methylphenol/4-Methylphenol	60		63		30-130	5		30
2,4,5-Trichlorophenol	76		75		30-130	1		30
Carbazole	65		71		55-144	9		30
Atrazine	74		78		40-140	5		30
Benzaldehyde	65		67		40-140	3		30
Caprolactam	31		30		10-130	3		30
2,3,4,6-Tetrachlorophenol	68		72		40-140	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1655211-2 WG1655211-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		55		21-120
Phenol-d6	41		43		10-120
Nitrobenzene-d5	73		76		23-120
2-Fluorobiphenyl	73		79		15-120
2,4,6-Tribromophenol	73		75		10-120
4-Terphenyl-d14	66		70		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 229 HOMER STREET

Project Number: 0311-018-001

Lab Number: L2233249

Report Date: 07/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG1655213-2 WG1655213-3								
Acenaphthene	81		81		40-140	0		40
2-Chloronaphthalene	81		82		40-140	1		40
Fluoranthene	70		69		40-140	1		40
Hexachlorobutadiene	73		75		40-140	3		40
Naphthalene	79		81		40-140	3		40
Benzo(a)anthracene	80		79		40-140	1		40
Benzo(a)pyrene	80		80		40-140	0		40
Benzo(b)fluoranthene	82		83		40-140	1		40
Benzo(k)fluoranthene	84		86		40-140	2		40
Chrysene	75		78		40-140	4		40
Acenaphthylene	80		81		40-140	1		40
Anthracene	80		79		40-140	1		40
Benzo(ghi)perylene	84		83		40-140	1		40
Fluorene	82		81		40-140	1		40
Phenanthrene	79		80		40-140	1		40
Dibenzo(a,h)anthracene	89		88		40-140	1		40
Indeno(1,2,3-cd)pyrene	86		83		40-140	4		40
Pyrene	69		68		40-140	1		40
2-Methylnaphthalene	81		82		40-140	1		40
Pentachlorophenol	71		75		40-140	5		40
Hexachlorobenzene	91		93		40-140	2		40
Hexachloroethane	73		72		40-140	1		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG1655213-2 WG1655213-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		64		21-120
Phenol-d6	51		52		10-120
Nitrobenzene-d5	83		84		23-120
2-Fluorobiphenyl	80		79		15-120
2,4,6-Tribromophenol	104		94		10-120
4-Terphenyl-d14	72		71		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1655211-4 WG1655211-5 QC Sample: L2233249-04 Client ID: MW-4												
Bis(2-chloroethyl)ether	ND	18.2	13	72		13	72		40-140	0		30
3,3'-Dichlorobenzidine	ND	18.2	10	55		11	61		40-140	10		30
2,4-Dinitrotoluene	ND	18.2	15	83		14	77		48-143	7		30
2,6-Dinitrotoluene	ND	18.2	16	88		16	88		40-140	0		30
4-Chlorophenyl phenyl ether	ND	18.2	13	72		12	66		40-140	8		30
4-Bromophenyl phenyl ether	ND	18.2	15	83		14	77		40-140	7		30
Bis(2-chloroisopropyl)ether	ND	18.2	12	66		12	66		40-140	0		30
Bis(2-chloroethoxy)methane	ND	18.2	13	72		13	72		40-140	0		30
Hexachlorocyclopentadiene	ND	18.2	12.J	66		11.J	61		40-140	9		30
Isophorone	ND	18.2	13	72		13	72		40-140	0		30
Nitrobenzene	ND	18.2	14	77		14	77		40-140	0		30
NDPA/DPA	ND	18.2	14	77		13	72		40-140	7		30
n-Nitrosodi-n-propylamine	ND	18.2	14	77		13	72		29-132	7		30
Bis(2-ethylhexyl)phthalate	44	18.2	16	**0**	Q	15	**0**	Q	40-140	6		30
Butyl benzyl phthalate	ND	18.2	17	94		17	94		40-140	0		30
Di-n-butylphthalate	ND	18.2	14	77		14	77		40-140	0		30
Di-n-octylphthalate	ND	18.2	16	88		15	83		40-140	6		30
Diethyl phthalate	ND	18.2	14	77		13	72		40-140	7		30
Dimethyl phthalate	ND	18.2	15	83		14	77		40-140	7		30
Biphenyl	ND	18.2	15	83		15	83		40-140	0		30
4-Chloroaniline	ND	18.2	10	55		11	61		40-140	10		30
2-Nitroaniline	ND	18.2	16	88		16	88		52-143	0		30
3-Nitroaniline	ND	18.2	13	72		13	72		25-145	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1655211-4 WG1655211-5 QC Sample: L2233249-04 Client ID: MW-4												
4-Nitroaniline	ND	18.2	14	77		14	77		51-143	0		30
Dibenzofuran	ND	18.2	13	72		12	66		40-140	8		30
1,2,4,5-Tetrachlorobenzene	ND	18.2	15	83		15	83		2-134	0		30
Acetophenone	ND	18.2	14	77		14	77		39-129	0		30
2,4,6-Trichlorophenol	ND	18.2	16	88		15	83		30-130	6		30
p-Chloro-m-cresol	ND	18.2	15	83		14	77		23-97	7		30
2-Chlorophenol	ND	18.2	13	72		13	72		27-123	0		30
2,4-Dichlorophenol	ND	18.2	15	83		14	77		30-130	7		30
2,4-Dimethylphenol	ND	18.2	11	61		8.7	48		30-130	23		30
2-Nitrophenol	ND	18.2	17	94		17	94		30-130	0		30
4-Nitrophenol	ND	18.2	12	66		12	66		10-80	0		30
2,4-Dinitrophenol	ND	18.2	19.J	100		19.J	100		20-130	0		30
4,6-Dinitro-o-cresol	ND	18.2	17	94		16	88		20-164	6		30
Phenol	ND	18.2	8.5	47		8.5	47		12-110	0		30
2-Methylphenol	ND	18.2	12	66		12	66		30-130	0		30
3-Methylphenol/4-Methylphenol	ND	18.2	12	66		12	66		30-130	0		30
2,4,5-Trichlorophenol	ND	18.2	16	88		16	88		30-130	0		30
Carbazole	ND	18.2	14	77		13	72		55-144	7		30
Atrazine	ND	18.2	20	110		20	110		40-140	0		30
Benzaldehyde	ND	18.2	18	99		17	94		40-140	6		30
Caprolactam	ND	18.2	8.0J	44		8.6J	47		10-130	7		30
2,3,4,6-Tetrachlorophenol	ND	18.2	15	83		15	83		40-140	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 229 HOMER STREET

Project Number: 0311-018-001

Lab Number: L2233249

Report Date: 07/07/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1655211-4 WG1655211-5 QC Sample: L2233249-04 Client ID: MW-4												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
2,4,6-Tribromophenol	94		94		10-120
2-Fluorobiphenyl	75		74		15-120
2-Fluorophenol	65		63		21-120
4-Terphenyl-d14	70		71		41-149
Nitrobenzene-d5	80		79		23-120
Phenol-d6	51		52		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: 229 HOMER STREET
Project Number: 0311-018-001
Lab Number: L2233249
Report Date: 07/07/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1655213-4 WG1655213-5 QC Sample: L2233249-04 Client ID: MW-4												
Acenaphthene	ND	18.2	12	66		12	66		40-140	0		40
2-Chloronaphthalene	ND	18.2	12	66		12	66		40-140	0		40
Fluoranthene	ND	18.2	11	61		10	55		40-140	10		40
Hexachlorobutadiene	ND	18.2	11	61		11	61		40-140	0		40
Naphthalene	ND	18.2	12	66		12	66		40-140	0		40
Benzo(a)anthracene	ND	18.2	13	72		12	66		40-140	8		40
Benzo(a)pyrene	ND	18.2	12	66		11	61		40-140	9		40
Benzo(b)fluoranthene	ND	18.2	13	72		12	66		40-140	8		40
Benzo(k)fluoranthene	ND	18.2	12	66		12	66		40-140	0		40
Chrysene	ND	18.2	12	66		11	61		40-140	9		40
Acenaphthylene	ND	18.2	12	66		12	66		40-140	0		40
Anthracene	ND	18.2	12	66		11	61		40-140	9		40
Benzo(ghi)perylene	ND	18.2	13	72		12	66		40-140	8		40
Fluorene	ND	18.2	13	72		12	66		40-140	8		40
Phenanthrene	ND	18.2	12	66		12	66		40-140	0		40
Dibenzo(a,h)anthracene	ND	18.2	14	77		13	72		40-140	7		40
Indeno(1,2,3-cd)pyrene	ND	18.2	14	77		13	72		40-140	7		40
Pyrene	ND	18.2	11	61		9.9	54		40-140	11		40
2-Methylnaphthalene	ND	18.2	12	66		12	66		40-140	0		40
Pentachlorophenol	ND	18.2	13	72		12	66		40-140	8		40
Hexachlorobenzene	ND	18.2	14	77		13	72		40-140	7		40
Hexachloroethane	ND	18.2	11	61		10	55		40-140	10		40

Matrix Spike Analysis

Batch Quality Control

Project Name: 229 HOMER STREET

Project Number: 0311-018-001

Lab Number: L2233249

Report Date: 07/07/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1655213-4 WG1655213-5 QC Sample: L2233249-04 Client ID: MW-4												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
2,4,6-Tribromophenol	93		85		10-120
2-Fluorobiphenyl	67		65		15-120
2-Fluorophenol	58		58		21-120
4-Terphenyl-d14	56		54		41-149
Nitrobenzene-d5	70		69		23-120
Phenol-d6	48		47		10-120

Project Name: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

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(*)
L2233249-01A	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-01B	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-02A	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-02B	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-03A	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-03B	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-04A	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-04A1	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-04A2	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-04B	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-04B1	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-04B2	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-05A	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-05B	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-06A	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-06B	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-07A	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-07B	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-08A	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2233249-08B	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name:	229 HOMER STREET	**Lab Number:**	L2233249
Project Number:	0311-018-001	**Report Date:**	07/07/22

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:	229 HOMER STREET	**Lab Number:**	L2233249
Project Number:	0311-018-001	**Report Date:**	07/07/22

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

Project Name:	229 HOMER STREET	**Lab Number:**	L2233249
Project Number:	0311-018-001	**Report Date:**	07/07/22

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:	229 HOMER STREET	**Lab Number:**	L2233249
Project Number:	0311-018-001	**Report Date:**	07/07/22

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

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

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

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

Page 1 of 1

Date Rec'd in Lab: 6/23/22

ALPHA Job #: L2233249

Client Information
Client: Turnkey
Address: 2558 Hamburg Turnpike
Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: krieser@hm-tk.com

Project Information
Project Name: 229 Homer Street
Project Location: Olean, NY
Project #
(Use Project name as Project #) ☐
Project Manager:
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

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:

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	TCL + CP-51 SVOCs + TICs 8270	Total Bottle	Sample Specific Comments
33249 -01	MW-1	6-21-22	1520	water	CEH	X		
-02	MW-2		1250			X		
-03	MW-3		1110			X		
-04	MW-4		1025			X		
-05	MW-4 MS		1025			X		
-06	MW-4 MSD		1025			X		
-07	MW-5		1425			X		
-08	MW-6		1155			X		
-09	MW-7		1355			X		
-10	Blind Dup		0800			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	A	
Preservative	A	

Relinquished By:	Date/Time	Received By:	Date/Time
Chris Hotchkiss	6-21-22 / 1700	AMC	6/22/22 1345
AMC	6/22/22 1420		6/23/22 0230

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)

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
harry@frontiernet.net

March 28, 2023

Charlotte Clark
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of 229 Homer Street Groundwater Sample Analytical Data
Data Usability Summary Report (DUSR)
Alpha Analytical SDG No. L2233249

Dear Ms. Clark:

Review has been completed for the data package generated by Alpha Analytical that pertains to samples collected 06/21/22 at the 229 Homer Street site. Seven aqueous samples and a field duplicate were processed for TCL and NYCRR Part 375 semivolatile analytes and Tentatively Identified Compounds (TICs) by USEPA SW846 method 8270E.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents and the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate/Internal Standard Recoveries
* Method/Preparation Blanks
* Matrix Spike Recoveries and Correlations
* Blind Field Duplicate Correlations
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, the results for the samples are usable as reported with the exception of minor qualification of one result.

Data completeness, accuracy, precision, representativeness, reproducibility, and comparability are acceptable.

Validation data qualifier definitions and client sample identifications are attached to this text. Also included in this report is the laboratory EDD with recommended qualifiers/edits applied in red.

Blind Field Duplicate

The blind field duplicate evaluation of MW-3 shows correlations within validation guidelines.

TCL Semivolatile Analyses by EPA8270E - Full Scan and SIM

The common contaminant bis(2-ethylhexyl)phthalate was detected in several of the project samples at levels generally typical of external contamination. Matrix spikes were performed on MW-4, and recoveries and correlations are within validation guidelines, with the exception of the recoveries for bis(2-ethylhexyl)phthalate. The spikes show concentrations of that compound that are consistent with the amount spiked into the parent sample and matrix spikes, which would be near 100% if the parent sample did not contain bis(2-ethylhexyl)phthalate. However, the parent sample shows detection of that analyte at a concentration more than twice that of the amount spiked. The result for that compound in MW-4 has been qualified as estimated in value.

Holding times were met. Surrogate and internal standard recoveries are compliant. Blanks show no contamination of target analytes. The blank shows TICs that are not present in the project field samples.

Calibration standards show responses within validation action levels.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

Attachments: Validation Data Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS EDD

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Identification Summary

Project Name: 229 HOMER STREET
Project Number: 0311-018-001

Lab Number: L2233249
Report Date: 07/07/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2233249-01	MW-1	WATER	OLEAN, NY	06/21/22 15:20	06/22/22
L2233249-02	MW-2	WATER	OLEAN, NY	06/21/22 12:50	06/22/22
L2233249-03	MW-3	WATER	OLEAN, NY	06/21/22 11:10	06/22/22
L2233249-04	MW-4	WATER	OLEAN, NY	06/21/22 10:25	06/22/22
L2233249-05	MW-5	WATER	OLEAN, NY	06/21/22 14:25	06/22/22
L2233249-06	MW-6	WATER	OLEAN, NY	06/21/22 11:55	06/22/22
L2233249-07	MW-7	WATER	OLEAN, NY	06/21/22 13:55	06/22/22
L2233249-08	BLIND DUP	WATER	OLEAN, NY	06/21/22 08:00	06/22/22

APPENDIX D

SVE SOIL VAPOR ANALYTICAL DATA

ANALYTICAL REPORT

Lab Number:	L2309542
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Brock Greene
Phone:	(716) 856-0599
Project Name:	229 HOMER ST. SITE
Project Number:	T0311-018-001-5
Report Date:	03/07/23

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5

Lab Number: L2309542
Report Date: 03/07/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2309542-01	SVE-7	SOIL_VAPOR	229 HOMER ST. SITE	02/21/23 12:33	02/22/23
L2309542-02	SVE-8	SOIL_VAPOR	229 HOMER ST. SITE	02/21/23 12:35	02/22/23

Project Name:	229 HOMER ST. SITE	**Lab Number:**	L2309542
Project Number:	T0311-018-001-5	**Report Date:**	03/07/23

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:	229 HOMER ST. SITE	**Lab Number:**	L2309542
Project Number:	T0311-018-001-5	**Report Date:**	03/07/23

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 19, 2023. The canister certification results are provided as an addendum.

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: Christopher J. Anderson

Title: Technical Director/Representative Date: 03/07/23

AIR

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5

Lab Number: L2309542
Report Date: 03/07/23

SAMPLE RESULTS

Lab ID: L2309542-01
Client ID: SVE-7
Sample Location: 229 HOMER ST. SITE

Date Collected: 02/21/23 12:33
Date Received: 02/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/03/23 17:43
Analyst: NFL

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.62	0.200	--	8.01	0.989	--		1
Chloromethane	0.364	0.200	--	0.752	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.77	1.00	--	4.20	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5
Lab Number: L2309542
Report Date: 03/07/23

SAMPLE RESULTS

Lab ID: L2309542-01
Client ID: SVE-7
Sample Location: 229 HOMER ST. SITE

Date Collected: 02/21/23 12:33
Date Received: 02/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	4.04	0.500	--	11.9	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.72	0.200	--	9.59	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.520	0.200	--	1.79	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	2.68	0.200	--	11.0	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.945	0.500	--	3.87	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5
Lab Number: L2309542
Report Date: 03/07/23

SAMPLE RESULTS

Lab ID: L2309542-01
Client ID: SVE-7
Sample Location: 229 HOMER ST. SITE

Date Collected: 02/21/23 12:33
Date Received: 02/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	96		60-140

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5
Lab Number: L2309542
Report Date: 03/07/23

SAMPLE RESULTS

Lab ID: L2309542-02
Client ID: SVE-8
Sample Location: 229 HOMER ST. SITE

Date Collected: 02/21/23 12:35
Date Received: 02/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/03/23 18:24
Analyst: NFL

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.939	0.200	--	4.64	0.989	--		1
Chloromethane	0.431	0.200	--	0.890	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.0	1.00	--	26.1	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5
Lab Number: L2309542
Report Date: 03/07/23

SAMPLE RESULTS

Lab ID: L2309542-02
Client ID: SVE-8
Sample Location: 229 HOMER ST. SITE

Date Collected: 02/21/23 12:35
Date Received: 02/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.354	0.200	--	1.25	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.385	0.200	--	1.33	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.995	0.200	--	4.65	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.04	0.200	--	7.69	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5
Lab Number: L2309542
Report Date: 03/07/23

SAMPLE RESULTS

Lab ID: L2309542-02
Client ID: SVE-8
Sample Location: 229 HOMER ST. SITE

Date Collected: 02/21/23 12:35
Date Received: 02/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5
Lab Number: L2309542
Report Date: 03/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/03/23 15:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1750922-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5
Lab Number: L2309542
Report Date: 03/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/03/23 15:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1750922-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5
Lab Number: L2309542
Report Date: 03/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/03/23 15:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1750922-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5

Lab Number: L2309542
Report Date: 03/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1750922-3								
Dichlorodifluoromethane	91		-		70-130	-		
Chloromethane	90		-		70-130	-		
Freon-114	83		-		70-130	-		
Vinyl chloride	81		-		70-130	-		
1,3-Butadiene	79		-		70-130	-		
Bromomethane	81		-		70-130	-		
Chloroethane	80		-		70-130	-		
Ethanol	87		-		40-160	-		
Vinyl bromide	77		-		70-130	-		
Acetone	100		-		40-160	-		
Trichlorofluoromethane	94		-		70-130	-		
Isopropanol	98		-		40-160	-		
1,1-Dichloroethene	94		-		70-130	-		
Tertiary butyl Alcohol	94		-		70-130	-		
Methylene chloride	95		-		70-130	-		
3-Chloropropene	96		-		70-130	-		
Carbon disulfide	80		-		70-130	-		
Freon-113	91		-		70-130	-		
trans-1,2-Dichloroethene	86		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
Methyl tert butyl ether	89		-		70-130	-		
2-Butanone	99		-		70-130	-		
cis-1,2-Dichloroethene	93		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5

Lab Number: L2309542
Report Date: 03/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1750922-3								
Ethyl Acetate	99		-		70-130	-		
Chloroform	94		-		70-130	-		
Tetrahydrofuran	96		-		70-130	-		
1,2-Dichloroethane	95		-		70-130	-		
n-Hexane	100		-		70-130	-		
1,1,1-Trichloroethane	114		-		70-130	-		
Benzene	95		-		70-130	-		
Carbon tetrachloride	113		-		70-130	-		
Cyclohexane	100		-		70-130	-		
1,2-Dichloropropane	107		-		70-130	-		
Bromodichloromethane	106		-		70-130	-		
1,4-Dioxane	110		-		70-130	-		
Trichloroethene	96		-		70-130	-		
2,2,4-Trimethylpentane	102		-		70-130	-		
Heptane	115		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	119		-		70-130	-		
trans-1,3-Dichloropropene	99		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	84		-		70-130	-		
2-Hexanone	96		-		70-130	-		
Dibromochloromethane	89		-		70-130	-		
1,2-Dibromoethane	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 229 HOMER ST. SITE

Project Number: T0311-018-001-5

Lab Number: L2309542

Report Date: 03/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1750922-3								
Tetrachloroethene	78		-		70-130	-		
Chlorobenzene	83		-		70-130	-		
Ethylbenzene	92		-		70-130	-		
p/m-Xylene	92		-		70-130	-		
Bromoform	86		-		70-130	-		
Styrene	85		-		70-130	-		
1,1,2,2-Tetrachloroethane	93		-		70-130	-		
o-Xylene	94		-		70-130	-		
4-Ethyltoluene	84		-		70-130	-		
1,3,5-Trimethylbenzene	87		-		70-130	-		
1,2,4-Trimethylbenzene	90		-		70-130	-		
Benzyl chloride	82		-		70-130	-		
1,3-Dichlorobenzene	80		-		70-130	-		
1,4-Dichlorobenzene	78		-		70-130	-		
1,2-Dichlorobenzene	79		-		70-130	-		
1,2,4-Trichlorobenzene	80		-		70-130	-		
Hexachlorobutadiene	82		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5

Lab Number: L2309542
Report Date: 03/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1750922-5 QC Sample: L2309542-02 Client ID: SVE-8						
Dichlorodifluoromethane	0.939	0.968	ppbV	3		25
Chloromethane	0.431	0.430	ppbV	0		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	11.0	11.0	ppbV	0		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5

Lab Number: L2309542
Report Date: 03/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1750922-5 QC Sample: L2309542-02 Client ID: SVE-8						
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.354	0.358	ppbV	1		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	0.385	0.393	ppbV	2		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	0.995	1.01	ppbV	1		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5

Lab Number: L2309542
Report Date: 03/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1750922-5 QC Sample: L2309542-02 Client ID: SVE-8						
Toluene	2.04	2.08	ppbV	2		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: 229 HOMER ST. SITE

Lab Number: L2309542

Project Number: T0311-018-001-5

Report Date: 03/07/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2309542-01	SVE-7	02175	Flow 2	01/19/23	412219		-	-	-	Pass	72.0	67	7
L2309542-01	SVE-7	2850	2.7L Can	01/19/23	412219	L2302526-01	Pass	-29.2	-3.1	-	-	-	-
L2309542-02	SVE-8	02130	Flow 2	01/19/23	412219		-	-	-	Pass	72.0	72	0
L2309542-02	SVE-8	3933	2.7L Can	01/19/23	412219	L2302526-01	Pass	-29.1	-2.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2302526
Report Date: 03/07/23

Air Canister Certification Results

Lab ID: L2302526-01
Client ID: CAN 2825 SHELF 4
Sample Location:

Date Collected: 01/16/23 11:00
Date Received: 01/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/16/23 21:29
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2302526
Report Date: 03/07/23

Air Canister Certification Results

Lab ID: L2302526-01
Client ID: CAN 2825 SHELF 4
Sample Location:

Date Collected: 01/16/23 11:00
Date Received: 01/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2302526
Report Date: 03/07/23

Air Canister Certification Results

Lab ID: L2302526-01
Client ID: CAN 2825 SHELF 4
Sample Location:

Date Collected: 01/16/23 11:00
Date Received: 01/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2302526
Report Date: 03/07/23

Air Canister Certification Results

Lab ID: L2302526-01
Client ID: CAN 2825 SHELF 4
Sample Location:

Date Collected: 01/16/23 11:00
Date Received: 01/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2302526
Report Date: 03/07/23

Air Canister Certification Results

Lab ID: L2302526-01
Client ID: CAN 2825 SHELF 4
Sample Location:

Date Collected: 01/16/23 11:00
Date Received: 01/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2302526
Report Date: 03/07/23

Air Canister Certification Results

Lab ID: L2302526-01
Client ID: CAN 2825 SHELF 4
Sample Location:

Date Collected: 01/16/23 11:00
Date Received: 01/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/16/23 21:29
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2302526
Report Date: 03/07/23

Air Canister Certification Results

Lab ID: L2302526-01
Client ID: CAN 2825 SHELF 4
Sample Location:

Date Collected: 01/16/23 11:00
Date Received: 01/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2302526
Report Date: 03/07/23

Air Canister Certification Results

Lab ID: L2302526-01
Client ID: CAN 2825 SHELF 4
Sample Location:

Date Collected: 01/16/23 11:00
Date Received: 01/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140

Project Name: 229 HOMER ST. SITE
Project Number: T0311-018-001-5

Lab Number: L2309542
Report Date: 03/07/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2309542-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2309542-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	229 HOMER ST. SITE	**Lab Number:**	L2309542
Project Number:	T0311-018-001-5	**Report Date:**	03/07/23

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: Data Usability Report

Project Name:	229 HOMER ST. SITE	**Lab Number:**	L2309542
Project Number:	T0311-018-001-5	**Report Date:**	03/07/23

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. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	229 HOMER ST. SITE	**Lab Number:**	L2309542
Project Number:	T0311-018-001-5	**Report Date:**	03/07/23

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

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: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

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.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 2/23/23

ALPHA Job #: L2309542

Client Information

Client: Turnkey Env.
Address: 2558 Hamburg Turnpike
Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: bgreene@bm-tk.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 229 Homer St. Site
Project Location: " "
Project #: T0311-018-001-5
Project Manager: Brock Greene
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
09542-01	SVE-7	2/21/23	11:56	12:33	-27.70	-1.96	SV	CWE	2.7L	2850	02175	X						
02	SVE-8	2/21/23	11:57	12:35	-28.07	-1.02	SV	CWE	2.7L	3933	02130	X						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
AAL	2/22/23 0815	AAL	2/22/23 1325
	2/22/23 1533		2/23/23 0230
	2/23/23 550		2/23/23 0550
	2/23/23 0645		2/23/23 0645