1 SHORE ROAD **GLENWOOD LANDING, NEW YORK 11547** FORMER PENETREX PROCESSING **NYSDEC SITE #13-0034**

PERIODIC REVIEW REPORT (JANUARY 2022 - MARCH 2023)

SUBMITTED TO:

New York State Department of Environmental Conservation

Division of Environmental Remediation

Remedial Bureau A, Section C

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1.0 INTRODUCTION AND SITE HISTORY

P.W. Grosser Consulting, Inc. (PWGC) has prepared this periodic review report (PRR) to document the results of the groundwater sampling, air/soil vapor sampling, and inspection events that have occurred from January 1, 2022, through March 31, 2023, at 1 Shore Road in Glenwood Landing, New York. This PRR was performed in accordance with the Site Management Plan (SMP), which was most recently updated in October 2021, that governs the environmental requirements at the subject property. The site is currently listed as a New York State Department of Environmental Conservation (NYSDEC) Class IV inactive hazardous waste disposal site identified as I.D. No. 13-0034.

A Class IV inactive hazardous waste site is assigned to a site that has been properly closed but that requires continued site management consisting of operation, maintenance and/or monitoring. The classification indicates that remedial activities have been completed, however, the site has still not been brought into compliance due to residually impacted media present at the property which exceeds standards, criteria, or guidance.

1.1. Site Description and History

The subject Site consists of an approximately one-acre parcel located on the east side of Shore Road in the Hamlet of Glenwood Landing, New York. The subject site is located in the Town of North Hempstead and Nassau County. A site location map is included as **Figure 1**. The property is improved with a two-story slab-on-grade steel and masonry industrial building with no basement, a three-story wood-frame house with a basement, asphalt parking, a communications tower, and other ancillary improvements. A site plan is included as **Figure 2**.

A former dry-cleaning business, known as Penetrex Processing, Inc. (Penetrex), is reported to have operated at the site for several years prior to abandoning the facility in 1984. PWGC began a Remedial Investigation (RI) in November 2001 at the site to obtain information necessary to determine the need for remediation. The RI determined that concentrations of Volatile Organic Compounds (VOCs), including Tetrachloroethene (PCE), and Trichloroethene (TCE), exceeded the NYSDEC Ambient Water Quality Standards (AWQS) in the site's groundwater. These exceedances were determined to be the result of the improper discharge of dry cleaning chemicals to sanitary leaching pool DW-5 and/or storm water drywell DW-1 located in the eastern portion of the Site (Figure 2). The RI also determined that this improper discharge had also created a soil vapor intrusion condition into the Site's two buildings.

Interim remedial measures (IRMs) at the Site carried out between 2007 and 2009 included the following actions:

- An Environmental Easement was put in place to restrict land use and prevent future exposure to contamination remaining at the site after remediation.
- Designed and installed two Sub-Slab Depressurization Systems (SSDSs) for the residential and commercial structures on the site to mitigate the potential for soil vapor intrusion. An active, single loop horizontal system with perforated piping was installed beneath the concrete slabs of each building. Riser pipes connect the systems to fans which exhaust sub-slab vapors through the discharge vents above the rooflines of the respective buildings and create a negative pressure beneath the slabs. The fans are designed to run continuously to sustain the negative pressure





beneath the slabs and mitigate the potential for vapor intrusion into the buildings. The as-built drawings for both systems are included in **Appendix A**.

- Installed five monitoring wells to supplement the previously existing seven monitoring wells and sampled each one to establish a VOC baseline prior to the application of remediation chemicals via in-situ injection. Two of the wells, MW-8D and MW-9D are screened at deeper intervals [40 feet to 50 feet] to evaluate groundwater quality below the water table.
- Designed and implemented an in-situ chemical injection program to treat chlorinated VOCs in the groundwater. A chemical solution of potassium permanganate was injected through temporary points in the delineated area of contamination within the eastern portion of the site's parking area.
- Conducted a post-injection round of sampling which indicated a substantial reduction in the mass of contamination at the subject site. This was best illustrated in the results from monitoring well MW-8, where the concentration of total VOCs decreased from 7,758 μ g/L to 1,462 μ g/L in the initial post-injection sampling. VOC concentrations in samples collected from the other monitoring wells in the impacted area were significantly lower than in MW-8.
- Developed and implemented a Site Management Plan (SMP) for the management and monitoring of remaining contamination at the site. The SMP has been revised several times with the current, NYSDEC-approved version dated October 2021.

The SMP, which was most recently updated in October 2021, addresses the means for implementing the Institutional Controls (ICs) and Engineering Controls (ECs) that are required by the Environmental Easement for the Site. The requirements include the operation of the two SSDSs, maintenance of a site cover system, pan-annual (once every fifth quarter) groundwater sampling, annual indoor air sampling, and an annual site-wide inspection to confirm that ICs and ECs are properly implemented and functioning as intended. An annual PRR submission to the NYSDEC is also included as a requirement in the SMP.

In addition to the routine sampling outlined in the SMP, the SMP also outlines the procedures for achieving permanent shutdown of the SSDSs. In December 2021, the initial steps of the permanent SSDS shutdown procedures were performed and included temporary deactivation of the two systems followed by the performance of a soil vapor intrusion survey in accordance with NYSDOH protocol. Concentrations of VOCs in soil vapor at the commercial building did not meet NYSDOH guidance for "No Further Action" and the SSDS at the commercial building was reactivated on a full-time basis after the results of the survey were reviewed by PWGC. The soil vapor intrusion survey performed at the residential house in December 2021 did meet NYSDOH guidance for "No Further Action" and, in accordance with the SMP, the SSDS at the residential house has remained deactivated since this survey.

At the time of the March 2023 field activities the commercial building was unoccupied, and the residential house was occupied by a single tenant.





1.2. 2018 Corrective Measure Work Plan and Activities

After reviewing PWGC's 2017 Periodic Review Report, the NYSDEC issued a letter on May 24, 2018, that required a Corrective Measures Work Plan (CMWP) be implemented for the following reasons as described by NYSDEC:

- In 2017, tetrachloroethene (PCE) was detected in the indoor air of the multi-unit house located on-site at a concentration of 20.6 micrograms per cubic meter (μg/m³). This is above concentrations typically found in residential homes. The indoor air of the multi-unit house has been above background concentrations for the last 2 years and there was no product inventory of items found in the basement discussed within the PRR. Section 5.0 Conclusions and Recommendations doesn't discuss this detection, nor does it discuss steps taken to determine the cause or correct the issue, essentially concluding that there is no potential intrusion issue at the house. This issue needs to be discussed within the PRR, sources of the PCE need to be identified and actions taken to reduce the levels.
- A soil vapor intrusion (SVI) evaluation was not conducted during the 2018 heating season and there is no current data determining whether the sub-slab depressurization system (SSDS) installed at the multi-unit house is functioning as designed. According to the 2011 Record of Decision (ROD), there is to be continued evaluation of the potential for vapor intrusion, monitoring of the indoor air and a monitoring plan which includes monitoring the effectiveness of the sub-slab depressurization system. An SVI evaluation including concurrent indoor, sub-slab and outdoor air samples must be collected during the 2018–2019 heating season to fulfill the requirements of the 2011 ROD and to verify the steps taken to reduce the PCE indoor air detections were effective.
- No groundwater was collected from MW-01 in April or November 2017, however, past groundwater sampling shows consistent PCE detections. Figure 4 states that MW-01 was obstructed. This should be designated in the "Notes" area of the applicable Table. The obstruction must be removed, and this well must be sampled to verify either increasing or decreasing PCE concentrations in MW-01.
- The 2017 groundwater sampling dates for MW-06 in Table 2 are transposed; The 10/31/17 sampling data is listed before the 4/27/17 sampling data. This must be corrected in the final PRR document.

To address the NYSDEC comments, PWGC submitted a Corrective Measure Work Plan (CMWP) to the NYSDEC in June 2018. Following approval of the CMWP, the following corrective measures were performed:

- PWGC performed an inspection of the site's two SSDSs for evidence of damage or other issues which may interfere with the systems' performance. No damage or other issues which may have affected the SSDSs performance were observed.
- Performance of an SSDS communication test in accordance with NYSDOH guidelines to confirm that negative pressure exists beneath the slab.
- The completion of an NYSDOH Indoor Air Questionnaire and Product Inventory Form as part of the inspection process.
- A soil vapor intrusion evaluation was performed in the house during the heating season on March 15, 2019. The sampling was performed in accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion and included the collection of one subslab vapor sample, one indoor air sample, and one outdoor air sample.
- The obstruction which prevented groundwater sampling at MW-1 in 2017 was removed.





1.3. 2021 SMP Update

In September 2021, PWGC petitioned for the site to be delisted as a Class IV inactive hazardous waste site based on the significant drop and subsequent stabilization of chlorinated solvent VOCs, namely TCE and PCE, in groundwater at the site following the application of potassium permanganate to the impacted area in December 2008 and January 2009. The applied chemicals have also been effective in keeping residual impact contained within the initial impacted area, vertically and horizontally, and has effectively mitigated impacted groundwater from migrating off-site. Additionally, PWGC petitioned for the deactivation of the two SSDSs at the site based on the lack of TCE and PCE detected in subslab samples collected from beneath the residential house on-site, and the low concentrations of TCE and PCE detected in sub-slab samples collected from beneath the commercial building on-site during recent monitoring events.

NYSDEC did not accept the request to have the site delisted in September 2021; however, NYSDEC approved the following changes to the SMP based on the information presented:

- Reduction in routine groundwater sampling from bi-annually (twice per year) to pan-annually (once every fifth quarter). Additionally, MW-3, which was previously damaged, would not require replacement.
- The requirement to perform additional injections of remediation chemicals would no longer applies to the site; however, NYSDEC will allow future injection activities to take place if deemed to be beneficial.
- Steps to achieve shutdown of the SSDSs on-site were approved. These steps include a six-week SSDS deactivation period to allow the subsurface to attain normal background conditions, and the collection of indoor and sub-slab soil vapor samples from both buildings. If favorable results are attained, the SSDSs will remain shut down for an extended period of time and then resampled in the same method. If favorable results are attained again, then permanent deactivation of the SSDS will be requested. If sample results collected during deactivation detect exceedances that require mitigation, then the SSDS will be re-activated, and the routine annual air sampling requirements would continue.
 - The initial steps of this procedure were performed in December 2021 at both buildings which demonstrated that soil vapor mitigation remains warranted at the commercial building while mitigation measures at the residential house no longer appeared to be necessary. The resampling of soil vapor and indoor air in accordance with the SSDS closure procedures at the residential house was performed in March 2023 while SSDS monitoring at the commercial building reverted to the routine procedures outlined in the SMP.
- NYSDEC will allow restricted-residential site development to be performed at the property, however, future development will require an evaluation of vapor intrusion to determine if vapor mitigation systems should be included in the building design.

These approved modifications were applied to the current version of the site's SMP which was updated and submitted to NYSDEC in October 2021.

1.4. December 2021 SSDS Shutdown Evaluation

In December 2021, PWGC mobilized to the site to perform soil vapor intrusion surveys at both buildings in accordance with the SSDS shutdown protocols detailed in the current version of the SMP, which are based on NYSDOH protocols. Prior to this sampling event, the





two SSDSs were deactivated on November 4, 2021, to allow for a six-week neutralization period.

Sub-slab vapor and indoor air concentrations at the residential house yielded a decision of "no further action" when analyzed using the NYSDOH decision matrices for each of the seven compounds included in the guidance, including the site's historical contaminants of concern: PCE and TCE. The soil vapor and air indoor air results at the residential home indicate that vapor mitigation measures do not appear to be warranted and the SSDS at this location has remained deactivated. The follow up soil vapor intrusion survey to determine if permanent shutdown of this SSDS is warranted was performed during the March 2023 PRR sampling event detailed in this report.

The elevated sub-slab vapor concentration of TCE at sampling location SV004/IA004, located in the commercial building, yielded a decision of "mitigate" despite TCE not being detected in indoor air at this location. Due to the elevated concentration of TCE in soil vapor, which is a historical contaminant of concern at the site, soil vapor mitigation measures appear to remain warranted. The SSDS at the commercial building was subsequently reactivated on February 4, 2022.



2.0 MARCH 2023 GROUNDWATER MONITORING AND SAMPLING

PWGC mobilized to the site on March 16, 2023, to perform groundwater monitoring activities.

2.1. Groundwater Monitoring

Groundwater monitoring consisted of measuring depth to water and total well depth measurements for the monitoring wells at the site. Groundwater monitoring data is recorded in the Groundwater Monitoring Well Sampling Logs attached in **Appendix B**. Water levels were collected using a Solinst Oil / Water Interface Probe. Groundwater sampling was performed in accordance with the site-specific SMP. A site plan illustrating the location of the monitoring wells is included as **Figure 3**.

2.2. Monitoring Well Sampling

The eleven monitoring wells at the site (MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, MW-8, MW-8D, MW-9, MW-9D, and MW-10) were sampled as part of the March 2023 sampling event. Each of the monitoring wells at the site are screened at a depth of ten to twenty feet below grade to match the elevation of the water table with the exception of MW-8D and MW-9D which are screened at thirty-two to forty-two feet below grade to monitor the vertical migration of chlorinated solvents beneath the source area. Samples were collected utilizing low flow purging and sampling procedures outlined in the United States Environmental Protection Agency (USEPA) Standard Operating Procedures (SOP) EQASOP-GW001. These monitoring wells were purged using a Grundfos pump and disposable polyethylene tubing which was replaced prior to sampling each well. During purging, the groundwater parameters pH, temperature, conductivity, oxygen reduction potential, turbidity, and dissolved oxygen were monitored every three minutes with a Horiba U52 water quality instrument. When measurements stabilized in accordance with the USEPA standard operating procedure EQASOP-GW001, purging was completed, and the Horiba was disconnected. The groundwater samples were then collected directly from the tubing and placed in pre-cleaned laboratory-supplied glassware and packed in a cooler on ice. Monitoring well sampling logs are included as **Appendix B**.

Samples were shipped under proper chain-of-custody procedures to Alpha Analytical Laboratories, Inc. (Alpha), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory. The samples were analyzed for the presence of:

Volatile Organic Compounds (VOCs) by USEPA method 8260.

Non-disposable sampling equipment (i.e. oil / water interface probe, Grundfos pump, etc.) was decontaminated prior to and between each well by using a distilled water and non-phosphate detergent wash followed by a distilled water rinse.

2.3. Quality Assurance / Quality Control

QA/QC for the groundwater sampling event included the following ASP-B protocols, including the analysis of a trip blank, the collection and analysis of a blind duplicate, a field blank, a matrix spike sample, and a matrix spike duplicate. The accuracy, precision, and completeness requirements were addressed by the laboratory for the data generated. Alpha indicated in an analytical narrative report of the sampling that the samples were received





in accordance with the chain of custody and no significant deviations were encountered during the preparation or analysis.

The sampling results were submitted to Laboratory Data Consultants (LDC), Inc of Carlsbad, California for a third-party quality assurance evaluation. The data was deemed to be usable by LDC. The Data Usability Summary Report is included as **Appendix E**.

2.4. Monitoring Well Sampling Results

Analytical results for samples collected from the monitoring wells were compared to NYSDEC Ambient Water Quality Standards (AWQS). Tetrachloroethene (PCE), Trichloroethene (TCE) and cis-1,2-Dichloroethene (Cis-1,2-DCE) were detected at concentrations exceeding AWQS during this sampling event. Analytical results are displayed on **Table 2** and are summarized below.

PCE was detected at concentrations exceeding its respective AWQS of 5 μ g/L at five of the eleven monitoring wells including MW-7, MW-8, and MW-9, and to a lesser extent at MW-1 and MW-10. Concentrations of PCE ranged from 9.3 μ g/L at MW-10 to 130 μ g/L at MW-9. PCE was not detected at the other six monitoring well locations.

TCE was detected at a concentration exceeding its respective AWQS of 5 μ g/L at one of the eleven monitoring well locations, which was at MW-9 where a concentration of 7 μ g/L was detected. PCE was not detected at the other ten monitoring well locations.

Cis-1-2-DCE was detected at a concentration exceeding its respective AWQS at one of the eleven monitoring well locations, which was MW-8 where a concentration of 50 μ g/L was detected. Cis-1,2-DCE was not detected at the other ten monitoring well locations.

Monitoring well locations MW-2, MW-4, MW-5, MW-6, MW-8D, and MW-9D did not yield concentrations of VOCs exceeding AWQS. Based on review of the analytical data, the highest degree of residual impact appears to be located in the center of the site at the locations of MW-7, MW-8, and MW-9 at the water table elevation. Low to no impact in wells outside of this area demonstrates that the plume is contained to the area around DW-1 and DW-5 and does not extend to the deeper elevations of the water table where MW-8D and MW-9D are screened.

The complete analytical data reports are included as **Appendix C**.

2.5. Historical Groundwater Results Discussion

Historical chlorinated VOC concentrations, dating as far back as 2001, for each well have been included in **Table 3**. This table includes PCE, TCE, cis-1,2-DCE, and vinyl chloride (VC) concentrations only; please note that results with "J" qualifiers have been listed as non-detect as these concentrations are less than the reporting limit and are considered less accurate.

Based on these results, the highest degree of impact appears to be located in the center of the site between wells MW-7, MW-8, and MW-9, which is consistent with groundwater sampling results over the past several years. Based upon the relatively low concentrations of chlorinated solvents in MW-2, MW-4, MW-5, MW-6, and MW-8D and MW-9D





groundwater impact is not migrating to the property boundary, off-site, or deeper into the aquifer. Moreover, exceedances of chlorinated solvent VOCs have not been observed in MW-8D since December 2018 and have not been observed in MW-9D since September 2008.

Overall, the VOC impact at the site appears to have been substantially reduced by the chemical injections in December 2008 and January 2009. Total Chlorinated Volatile Organic Compound (CVOC) and groundwater elevation contour figures (**Figures 4 and 5**) have been generated to reflect groundwater flow direction as well as the extent of groundwater impact. These figures illustrate that groundwater flow is to the northwest while the total CVOC concentrations have decreased and is limited to the area of the former source area centered around underground injection control structures DW-1 and DW-5.

2.6. Future Sampling Recommendations

Based on decreasing concentrations and the lack of off-site migration as detailed over the past years, PWGC recommends the following actions:

- Continue groundwater sampling on a pan-annual (every fifth quarter basis). The next groundwater sampling event will take place in June 2024.
- Reduce the routine well sampling to MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, and MW-10.
- Discontinuing of sampling of MW-8D and MW-9D based on the lack of impacts observed at these two locations over the past several monitoring events.





3.0 MARCH 2023 SOIL VAPOR AND INDOOR AIR SAMPLING

PWGC mobilized to the site on March 16 and 17, 2023, to perform air sampling activities. The March 2023 sampling event was performed in accordance with the routine sampling requirements detailed in the SMP for the commercial building and the sampling in the residential house was performed in the accordance with the SSDS shutdown requirements detailed in the SMP.

3.1. Commercial Building Indoor Air Sampling

A total of four indoor ambient air samples were collected in the commercial building (one sample from each of the four main ground floor spaces) for a period of twenty-four hours by PWGC on March 16 to 17, 2023. An upwind outdoor air sample was also collected during this time as a quality assurance/quality control measure. The sampling was performed in accordance with the routine air sampling protocols outlined in the SMP.

Each of the indoor air samples were collected from a height representing the breathing zone (between three and five feet above the floor). The outdoor air sample was collected from approximately three feet above the ground and placed in the up-wind direction from the buildings.

The samples were collected into 6-liter Summa® vacuum canisters fitted with 24-hour flow controllers. The canisters were certified clean by the laboratory. The samples were submitted to Alpha Analytical Laboratories for analysis of VOCs by USEPA Method TO-15-SIM for the ambient air samples and TO-15 for the soil vapor samples.

The soil-vapor/indoor air sampling locations were identified as follows:

- IA001 Located in the western portion of the commercial building.
- IA002 Located in the central portion of the commercial building.
- IA003 Located in the eastern portion of the commercial building.
- IA004 Located in the southern portion of the commercial building.

An up-wind outdoor air sample, OA001, was collected as a quality assurance/quality control measure. A site plan illustrating the location of the sampling areas is included as **Figure 6**.

3.1.1. Commercial Building Ambient Indoor Air Sampling Results

The primary method for analyzing ambient indoor air sampling results in New York State is by analyzing data using the NYSDOH Air Guidance Values included in Table 3.1 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion, October 2006. The list of analytes for the indoor air guidance values includes Methylene Chloride, TCE, and PCE.

Methylene chloride and TCE were not detected in each of the four indoor air samples collected from the commercial building. PCE was detected in the four indoor air samples collected from the commercial building. However, the highest concentration of PCE which was detected in indoor air was 1.04 μ g/m³ at IAoo3, which is less than the Air Guidance Value of 30 μ g/m³. Additionally, PCE was also detected in OAoo1 at a concentration of 0.834 μ g/m³ indicating that the minor concentrations of PCE detected in the indoor air are potentially associated with an off-site source.





Moreover, the commercial building has historically included elevated concentrations of methylene chloride in the indoor air samples. As documented in previous PRR reports, the elevated concentrations appeared to be associated with the storage and use of adhesive products that were used by a furniture company that had previously occupied the property and has since vacated the building. During the March 2023 sampling event, methylene chloride was not detected in each of the four indoor air samples indicating that the elevated concentrations of this compound were likely not associated with subsurface impact at the site.

Analytical results for indoor air samples are summarized in **Table 4**. The laboratory analytical report is included in **Appendix C**.

3.1.2. Indoor Air Sample Results Analysis

Based on the analytical results of the four indoor air samples collected from the commercial building, the SSDS appears to be functioning and effective at mitigating chlorinated solvent vapors in the subsurface from impacting the indoor air of the building. Moreover, the elevated concentrations of methylene chloride detected in the indoor air during previous sampling events appears to have been addressed by the vacating of the former tenant who had used methylene chloride containing adhesives as part of their operations.

3.2. Residential House Soil Vapor Intrusion Assessment for SSDS Shutdown

A total of one soil vapor and one indoor ambient air sample were collected from the basement of the residential house for a period of twenty-four hours by PWGC on March 16 to 17, 2023. An upwind outdoor air sample was also collected during this time as a quality assurance/quality control measure. The sampling was performed in accordance with the SMP as a measure to achieve shutdown of the SSDS system installed at the residential house and the SSDS had been deactivated for approximately fifteen months at the time of this sampling event.

The indoor air sample was collected from a height representing the breathing zone (between three and five feet above the floor). The outdoor air sample was collected from approximately three feet above the ground and placed in the up-wind direction from the building.

The soil vapor sample was collected from the permanent soil vapor monitoring point located in the basement of the residential house. Prior to sampling, the integrity of the sampling port seal was tested using tracer gas analysis. The environment surrounding the seal was enriched with the tracer gas, helium, as readings were collected through the sampling probe with a portable helium detector. Tracer gas readings collected from the soil vapor probe was acceptable indicating the seals were intact and the soil vapor monitoring point was acceptable for sample collection. After the initial tracer gas test was performed, one to three volumes of the sample tubing were purged prior to collecting the sample. Flow rates for both purging and collecting did not exceed 0.2 liters per minute to minimize potential indoor air infiltration during sampling.

The samples were collected into 6-liter Summa® vacuum canisters fitted with 24-hour flow controllers. The canisters were certified clean by the laboratory. The samples were





submitted to Alpha Analytical Laboratories for analysis of VOCs by USEPA Method TO-15-SIM for the ambient air samples and TO-15 for the soil vapor sample.

The soil-vapor/indoor air sampling locations were identified as follows:

• SV005/IA005 – Located in the basement of the residential house.

An up-wind outdoor air sample, OA001, was collected as a quality assurance/quality control measure. A site plan illustrating the location of the sampling areas is included as **Figure 6**.

3.2.1. Residential House Soil Vapor Intrusion Assessment Sampling Results

The primary method for analyzing soil vapor intrusion in New York State is by analyzing data using the NYSDOH decision matrices included in Appendix A of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion, October 2006. The matrices include guidance for seven chlorinated solvent compounds: PCE, TCE, cis-1,2-DCE, 1,1-dichloroethene, carbon tetrachloride, 1,1,1-trichloroethane, methylene chloride, and VC. The four possibilities of recommended guidance that can be obtained from the matrices are as follows:

- No further action Indicating that vapor mitigation measures are not warranted for the compound being assessed.
- Monitor Indicating that sub-slab vapor and indoor air concentrations are at levels
 that a significant intrusion condition cannot be confirmed or ruled out. Generally,
 the subsequent measures include assessing building conditions and/or resampling.
- Mitigate Indicating that a soil vapor intrusion condition exists that should be mitigated to minimize potential exposures. A common mitigation measure is an SSDS similar to the systems currently installed at the two buildings at the subject property.
- Identify Source and Resample or Mitigate Indicating that the source of impact may
 be emanating from an above ground source from inside the structure being sampled
 or form the outdoor air. In this scenario, efforts should be made to identify the
 source of impact and remove it, if possible. Mitigation measures also may be
 considered if soil vapor cannot be ruled out as a possible source.

Soil vapor and indoor air concentrations for TCE, PCE, cis-1,2-dichlorethene, 1,1-dichloroethene, carbon tetrachloride, 1,1,1-trichloroethane, methylene chloride and VC yielded guidance of "no further action" at the residential house when analyzed using the NYSDOH decision matrices.

Analytical results for indoor/outdoor air samples and Sub-Slab vapor are summarized in **Table 4**. The laboratory analytical report is included in **Appendix C**. The completed decision matrix for SV005/IA005 is included as **Appendix D**.

3.2.2. Soil Vapor Intrusion Assessment Sampling Results Analysis

Sub-slab vapor and indoor air concentrations at the residential house (SV005/IA005) yielded decisions of "no further action" when analyzed using the NYSDOH decision matrices for each of the seven compounds included in the guidance, including the site's historical contaminants of concern: PCE and TCE. This soil vapor intrusion assessment was performed approximately fifteen months following the deactivation of the SSDS at this location. The soil vapor and air indoor air results at the residential home indicate that vapor





mitigation measures do not appear to be warranted. Based on the results of the soil vapor intrusion assessments performed in December 2021 and March 2023 while the house's SSDS was deactivated, the SSDS which services the house is no longer necessary.

3.3. Quality Assurance / Quality Control

QA/QC for the soil vapor and air sampling event included the following ASP-B protocols. The accuracy, precision, and completeness requirements were addressed by the laboratory for the data generated. Alpha indicated in an analytical narrative report of the sampling that the samples were received in accordance with the chain of custody and no significant deviations were encountered during the preparation or analysis.

The sampling results were submitted to LDC for a third-party quality assurance evaluation. The data was deemed to be usable by LDC. The Data Usability Summary Report is included as **Appendix E**.

3.4. Future Recommendations

Based on these results of the March 2023 indoor air sampling at the commercial building and the soil vapor intrusion assessment at the residential house, PWGC recommends the following actions:

- The routine air sampling at the commercial building should continue to be conducted in accordance with the routine sampling procedures outlined in the SMP. The next indoor air sampling event is due to occur between January 1, 2024, and March 31, 2024.
- The SSDS which services the residential house should be permanently decommissioned.





4.0 SITEWIDE INSPECTION

The SMP was developed to confirm that the site remedy continues to be effective in protecting public health and the environment. The SMP specifies a sitewide inspection on an annual basis. During these inspections, an inspection form is completed which is included as **Appendix F**. The form is used to compile sufficient information to assess the following:

- Compliance with ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the SMP; and
- Confirm that site records are up to date.

The sitewide inspection was performed on March 2, 2023, by Kaitlyn Crosby, a representative of PWGC. The components of the SSDS were visually inspected for signs of damage such as cracks in piping, fans, and alarms. The SSDS at the commercial building was temporarily deactivated to confirm that the low-pressure alarms were active. Prior to the deactivation of the SSDS, vacuum gauge readings were recorded to confirm that the SSDS was active. The SSDS at the residential house was inspected to confirm that it remains to be deactivated since the last sampling event in December 2021. The inspection indicated that the SSDS at the commercial building was functioning properly and the SSDS system at the residential house was not active at the time of inspection. Both SSDS appeared to be in good physical condition and no damage to either system was observed.

The site cover system was observed during the sitewide inspection which consists of the majority of the site being paved with asphalt and the concrete foundations of the two buildings. There was no observed evidence of site development or ground-intrusive activities that would result in damage or deficiencies to the site cover system. The commercial building was unoccupied at the time of inspection and the residential house was occupied by a single tenant, which conforms to the ICs placed on the property.

The groundwater monitoring system was inspected for signs of damage. MW-6 was observed to be buried under soil at the time of inspection, however the well was able to be unearthed by PWGC. MW-6 appeared to be in good condition and was able to be sampled properly in March 2023. The other monitoring wells appeared to be in good condition with plugs and protective manhole covers in place.

4.1. Future Inspection Recommendations

Based on the inspection observations, there are no recommendations for corrective measures at this time. The next sitewide inspection is due to occur in June 2024.





5.0 CONCLUSIONS

This report documents activities performed between January 1, 2022, through March 31, 2021

PWGC mobilized to the site on March 16, 2023, to perform groundwater monitoring activities. PCE was detected at concentrations exceeding its respective AWQS at monitoring well locations MW-1, MW-7, MW-8, MW-9, and MW-10. TCE was detected at a concentration exceeding its respective AWQS at MW-9. Cis-1,2-DCE was detected at a concentration exceeding its respective AWQS at MW-8. Monitoring well locations MW-2, MW-4, MW-5, MW-6, MW-8D, and MW-9D did not contain exceedances of VOCs greater than AWQS during this reporting period.

Based on these analytical results, the highest degree of residual impact appears to be located in the center of the site at monitoring well locations MW-7, MW-8, and MW-9. This area coincides with the UIC structures believed to have received discharges of chlorinated solvents from the former dry-cleaning operation and is consistent with previous sampling events. Based upon the relatively low concentrations and/or non-detections of chlorinated solvents, especially PCE, in MW-2, MW-4, MW-6, MW-8D, and MW-9D it appears that VOC impacts in groundwater are not migrating towards the property boundary and off-site, or to deeper intervals in the aquifer.

Overall, total VOC impact at the site appears to have been substantially reduced by the chemical injections in December 2008 and January 2009. Remaining groundwater impact is only observed in the immediate vicinity of the former source area and is less than 150 μ g/L.

PWGC mobilized to the site on March 16 and 17, 2023, to perform air sampling activities within the commercial building and residential house. A soil vapor intrusion assessment was performed at the residential house to determine if the SSDS at this location can be permanently decommissioned, and the sampling performed at the commercial building was performed to evaluate if the SSDS at this location was effectively mitigating against impacted soil vapors from affecting indoor air.

The results of the soil vapor intrusion assessment at the residential house indicated that sub-slab vapor and indoor air concentrations of VOCs, including PCE and TCE, met the criteria for "no further action" and for permanent decommissioning in accordance with the SMP. The analytical results of the indoor air samples collected from the commercial building meet NYSDOH indoor guidance values and demonstrated that the SSDS at this building is effectively mitigating against impacted soil vapor from affecting indoor air quality. Moreover, the elevated concentrations of methylene chloride detected in the indoor air during previous sampling events at the commercial building appears to have been addressed by the vacating of the former tenant who had used methylene chloride containing adhesives as part of their operations.

PWGC mobilized to the site on March 2, 2023, to conduct a site-wide inspection. The inspection indicated that the SSDS at the commercial building was functioning properly and the SSDS at the residential house had remained deactivated as per the SSDS closure requirements. The site cover system and groundwater monitoring wells were observed to





be in good condition during the site inspection and the site usage conformed to the ICs placed on the property.



6.0 RECOMMENDATIONS

At this time, PWGC offers the following recommendations for the site:

- Due to a demonstrated decrease of chlorinated solvent VOC concentrations in groundwater since monitoring began in 2001 (corresponding to 22 sampling events), as well as the lack of migration of these compounds beyond the source area, PWGC recommends the following actions:
 - Continue groundwater sampling on a pan-annual (every fifth quarter basis).
 The next groundwater sampling event will take place in the second quarter of 2024 (June 2024).
 - Reduce the groundwater sampling to monitoring well locations MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, and MW-10.
 - Discontinue sampling of MW-8D and MW-9D based on the lack of impacts observed at these two locations over the past several monitoring events.
- Based on the results of the soil vapor and indoor air sampling in March 2023, the following is recommended:
 - The SSDS at the residential house should be permanently decommissioned and the SMP should be updated to reflect this change.
 - The SSDS at the commercial building should remain active and routine indoor air sampling at this building should continue in accordance with the SMP. The next indoor air sapling event is due to occur between January 1, 2024, and March 31, 2024.
- Continue annual sitewide inspections with the next inspection scheduled for June 2024.





7.0 REFERENCES

NYSDEC, Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values; June 1998 and addendum April 2000.

New York State Department of Health, Vapor Intrusion Guidance, October 2006

PWGC, Penetrex Processing Company Site, Site Management Plan, Updated October 2021.

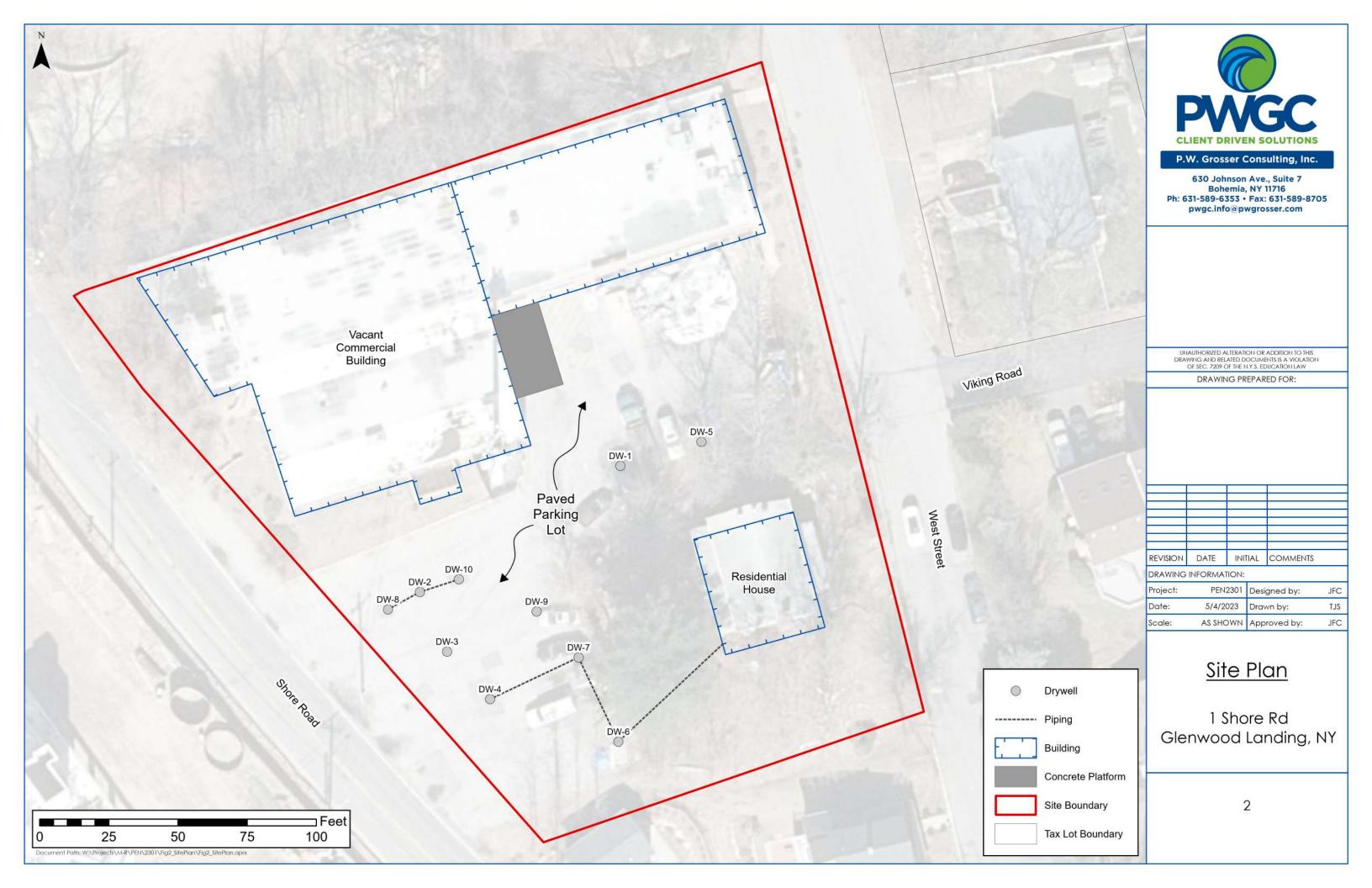


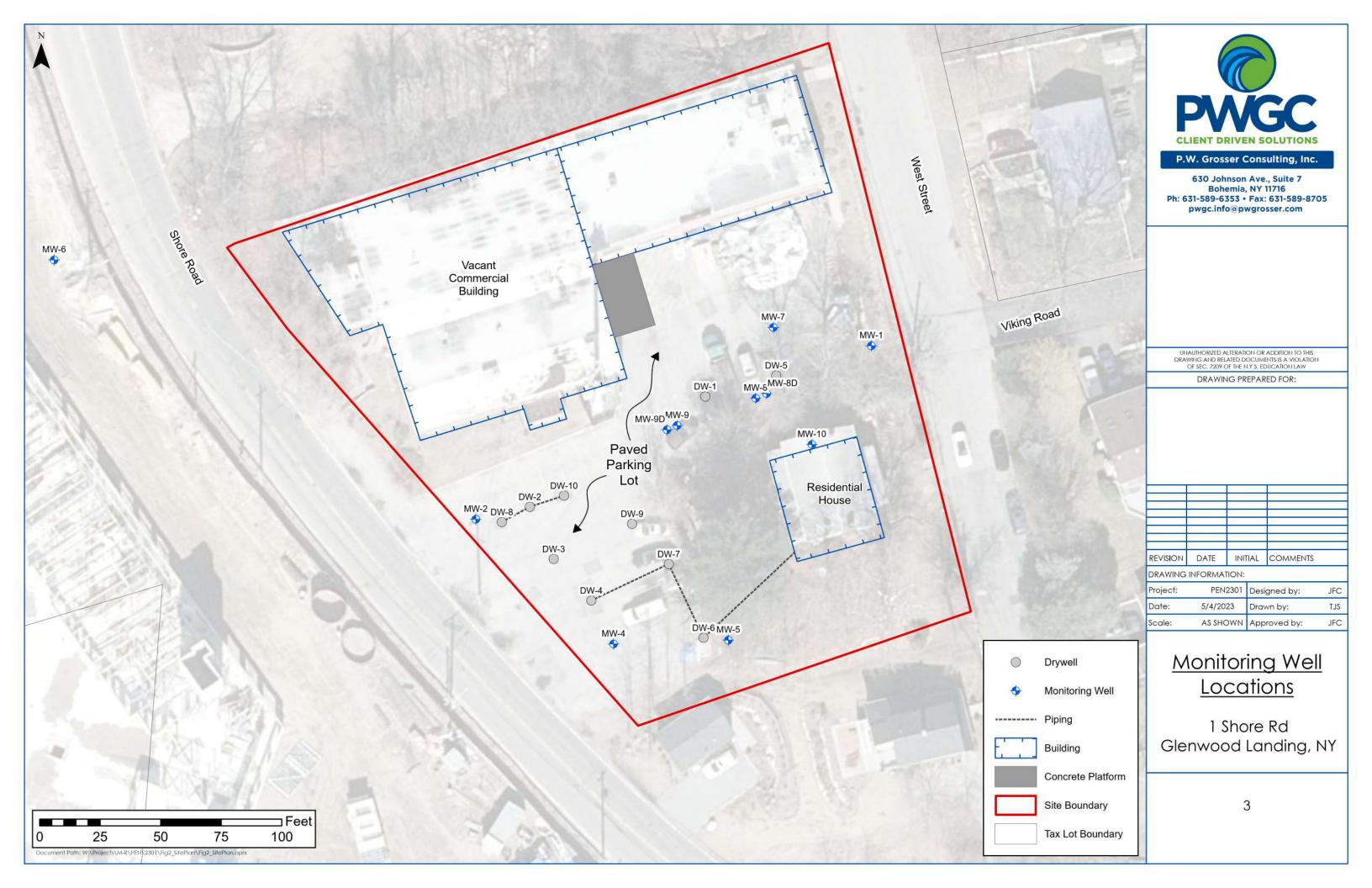


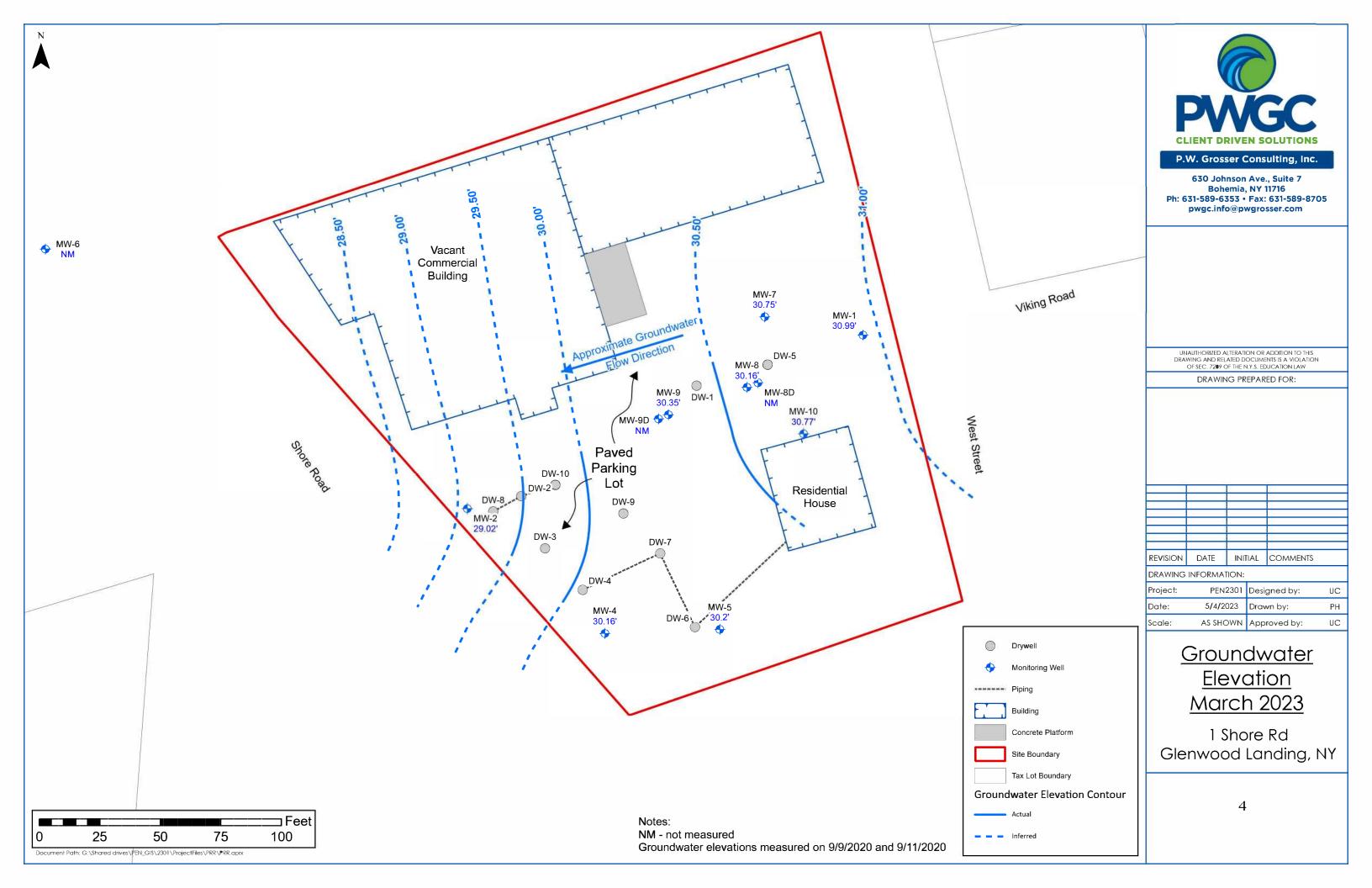
FIGURES

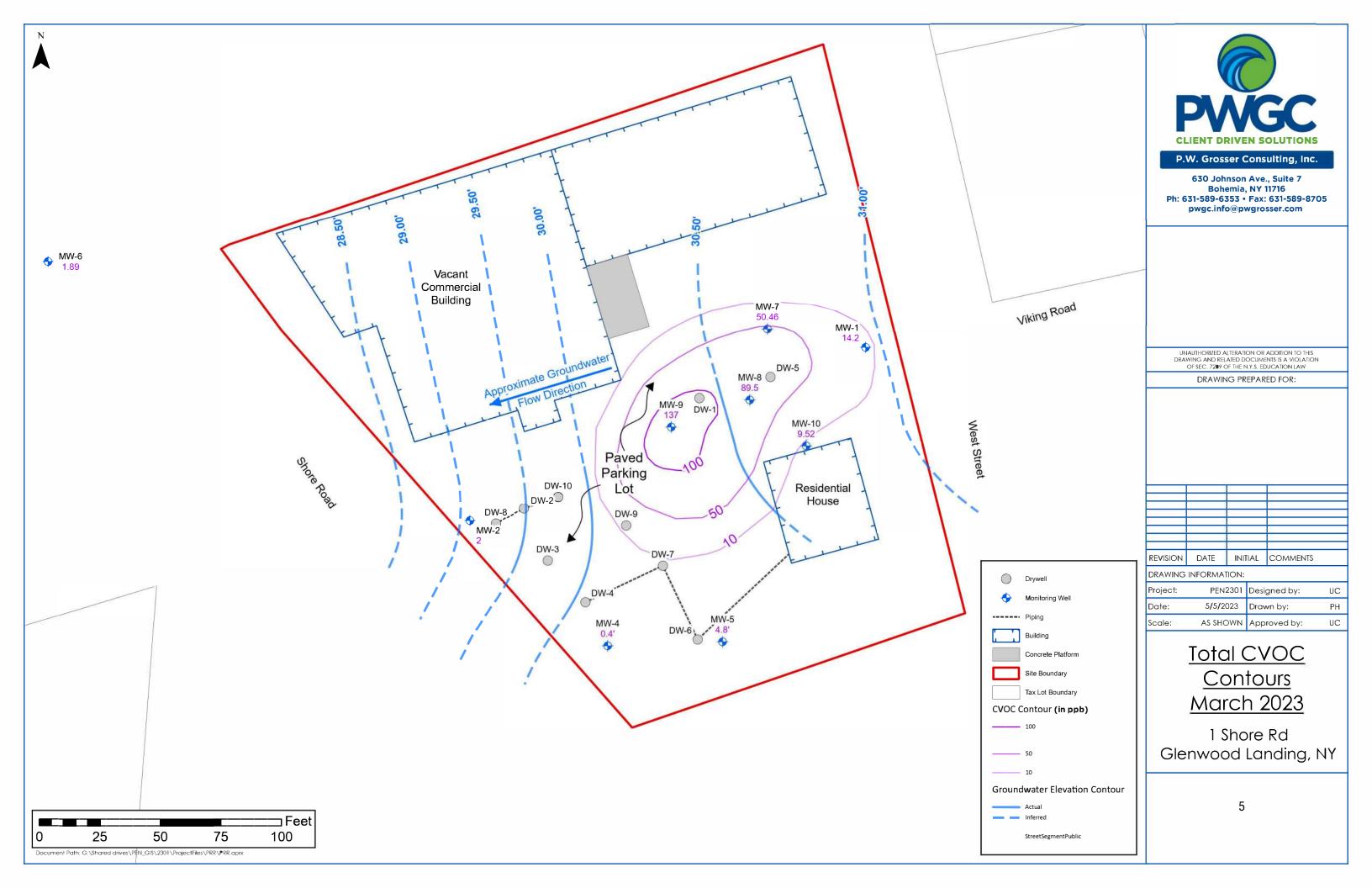


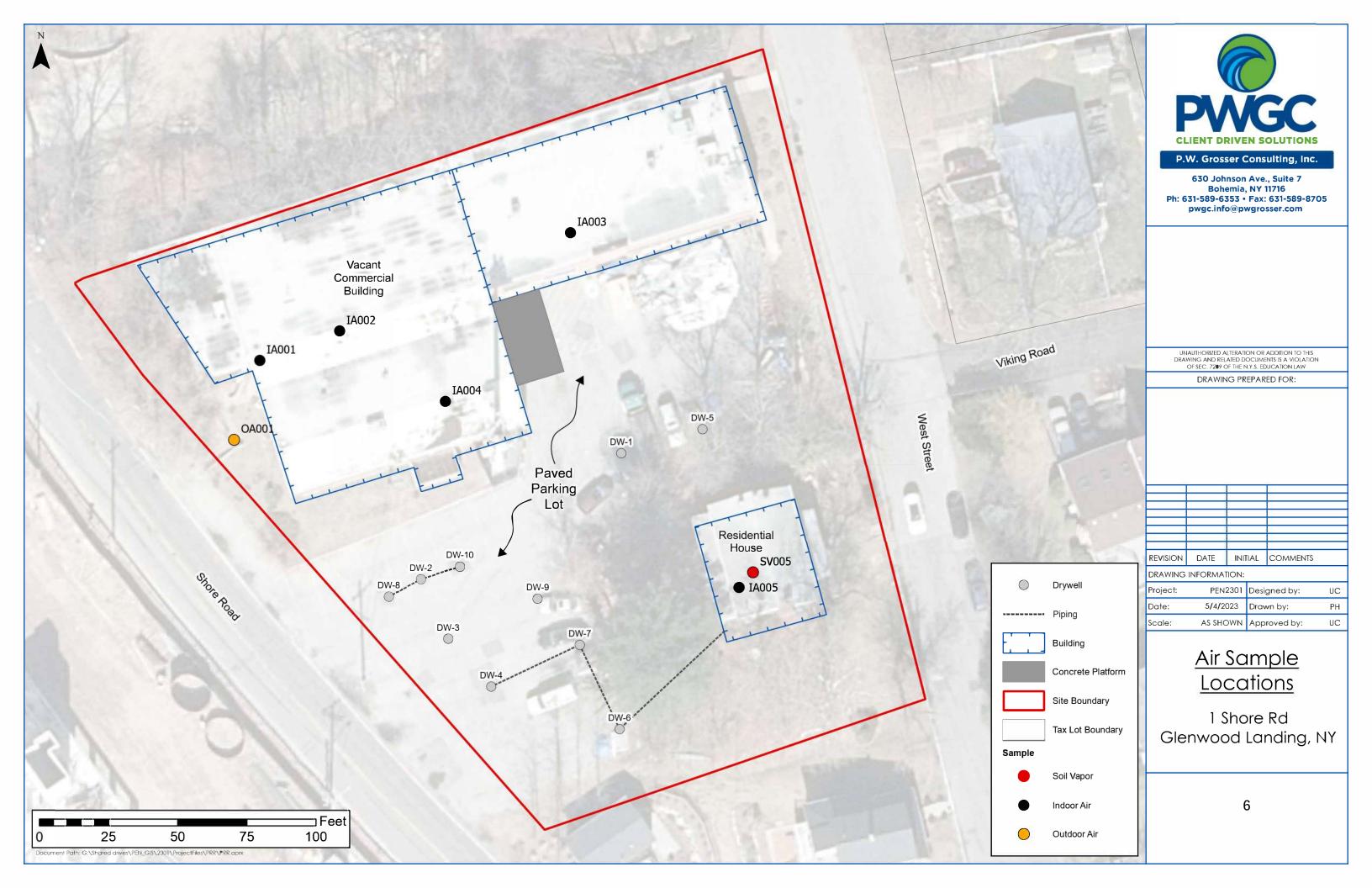














TABLES



Table 1 Groundwater Monitoring Field Data 1 Shore Road, Glenwood Landing, NY

Well ID	Reference Elevation	Depth to Water	Relative Groundwater Elevation
December 21, 2	021		
MW-1	49.06	18.07	30.99
MW-2	38.88	9.86	29.02
MW-3	38.86	NM	NM
MW-4	39.36	9.20	30.16
MW-5	40.32	10.12	30.20
MW-6	36.81	NM	NM
MW-7	49.18	18.43	30.75
MW-8	46.19	16.03	30.16
MW-9	44.86	14.51	30.35
MW-10	45.53	14.76	30.77

Notes:

Measurements are in feet.

The Reference Elevation is based on an arbitrary datum.

Sample ID													
	NYSDEC Groundwater	MW-1	MW-2	MW-4	MW-5	MW-6	MW-7	MW-8	MW-8D	MW-9	MW-9D	MW-10	DUPE
Sampling Date	Standards (1)	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023
Lab Sample ID		L2314139-01	L2314139-02	L2314139-03	L2314139-04	L2314139-05	L2314139-06	L2314139-08	L2314139-07	L2314139-09	L2314139-10	L2314139-11	L2314139-12
Volatile Organic Compounds by 8260 - με 1,1,1,2-Tetrachloroethane	5/L 5	2.5 U											
1,1,1-Trichloroethane	5	2.5 U											
1,1,2,2-Tetrachloroethane	5	0.5 U											
1,1,2-Trichloroethane	1	1.5 U											
1,1-Dichloroethane	5	2.5 U											
1,1-Dichloroethene	5	0.5 U											
1,1-Dichloropropene	5	2.5 U											
1,2,3-Trichlorobenzene	5	2.5 U											
1,2,3-Trichloropropane	0.04	2.5 U											
1,2,4,5-Tetramethylbenzene 1,2,4-Trichlorobenzene	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2,4-1 richioropenzene 1,2,4-Trimethylbenzene	<u>5</u> 5	2.5 U 2.5 U											
1,2-Dibromo-3-chloropropane	0.04	2.5 U											
1,2-Dibromoethane	0.0006	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	2.5 U											
1,2-Dichloroethane	0.6	0.5 U											
1,2-Dichloroethene, Total	NS	2.5 U	2.5 U	2.5 U	2.5 U	1.4 J	2.5 U	50	2.5 U				
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5	2.5 U											
1,3-Dichlorobenzene	3	2.5 U											
1,3-Dichloropropane	5	2.5 U											
1,3-Dichloropropene, Total	NS 3	0.5 U											
1,4-Dioyana	NS	2.5 U 250 U											
1,4-Dioxane 2,2-Dichloropropane	NS 5	250 U 2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	0.5 U											
Bromobenzene	5	2.5 U											
Bromochloromethane	5	2.5 U											
Bromodichloromethane	50 50	0.5 U											
Bromoform Bromomethane	50	2 U 2.5 U											
Carbon disulfide	60	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	0.5 U											
Chlorobenzene	5	2.5 U											
Chloroethane	5	2.5 U											
Chloroform	7	2.5 U											
Chloromethane	NS	2.5 U											
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	1.4 J	2.5 U	50	2.5 U				
cis-1,3-Dichloropropene	0.4	0.5 U											
Dibromochloromethane	50	0.5 U											
Dibromomethane Dishlorodifluoromethans	<u>5</u>	5 U	5 U 5 U	5 U	5 U	5 U 5 U	5 U 5 U	5 U	5 U	5 U	5 U	5 U	5 U 5 U
Dichlorodifluoromethane Ethyl ether	NS NS	2.5 U											
Ethylbenzene	5	2.5 U											
Hexachlorobutadiene	0.5	2.5 U											
Isopropylbenzene	5	2.5 U	0.9 J	2.5 U									
Methyl tert butyl ether	10	2.5 U											
Methylene chloride	5	2.5 U											
n-Butylbenzene	5	2.5 U											
n-Propylbenzene	5	2.5 U											
Naphthalene o-Chlorotoluene	10 5	2.5 U 2.5 U	2.5 U	2.5 U 2.5 U	2.5 U 2.5 U	2.5 U	2.5 U	2.5 U	2.5 U 2.5 U	2.5 U	2.5 U 2.5 U	2.5 U 2.5 U	2.5 U 2.5 U
o-Chlorotoluene o-Xylene	5	2.5 U 2.5 U											
p-Chlorotoluene	5	2.5 U		2.5 U	2.5 U	2.5 U	2.5 U						
p-Diethylbenzene	NS NS	2.3 U	1.4 J	2.5 U	2.3 U	2.3 U	2.3 U	2.3 U	+	2.3 U	2.3 U	2.3 U	2.3 U
p-Ethyltoluene	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
p-Isopropyltoluene	5	2.5 U											
p/m-Xylene	5	2.5 U											
sec-Butylbenzene	5	2.5 U	2.4 J	2.5 U									
Styrene	5	2.5 U											
tert-Butylbenzene	5	2.5 U											
Tetrachloroethene	5	14	2	0.4 J	4.2	0.49 J	50	38	2.8	130	0.36 J	9.3	0.34 J
Toluene	<u> </u>	2.5 U 2.5 U		2.5 U	2.5 U	2.5 U	2.5 U 2.5 U						
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	0.4	2.5 U 0.5 U	2.5 U 0.5 U	0.5 U	2.5 U 0.5 U	2.5 U 0.5 U	2.5 U 0.5 U	2.5 U 0.5 U		2.5 U 0.5 U	2.5 U 0.5 U	2.5 U 0.5 U	2.5 U 0.5 U
trans-1,4-Dichloro-2-butene	5	2.5 U											
Trichloroethene	5	0.2 J	0.26 J	0.5 U	0.6	0.5 U	0.46 J	1.5	0.5 U	7	0.5 U	0.22 J	0.5 U
Trichlorofluoromethane	5	2.5 U											
Vinyl acetate	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	2.5 U		2.5 U	2.5 U	2.5 U	2.5 U						
Total VOCs	NS	14.2	6.96	0.4	4.8	3.29	50.46	89.5	2.8	137	0.36	9.3	0.34

- Notes:

 (1) NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998, April 2000 addendum

 * Guidance Value

 D The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range

 J Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL

 Q Indicates the lab controlled sample did not meet the control limits required

 U The compound was not detected at the indicated concentration

 Bold / Shaded text denotes concentrations exceeding NYSDEC AWQS

Sampling Date:	AWQS (1)	11/13/01	1/19/05	9/6/06	9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/15	4/28/16	10/25/16	4/27/17	10/31/17	4/3/18	12/19/18	7/24/19	9/11/20	12/21/21	3/16/23
MW-1																								
cis-1,2-Dichloroethene	5	ND	1.43	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND	ND	NC	NC	ND	ND	NC	ND	ND	ND
Tetrachloroethene	5	100 4	82.8	120	25 ND	62 ND	50 ND	19 ND	12 ND	80 ND	11 ND	18 ND	10 ND	15 ND	7.3 ND	15 ND	NC NC	NC NC	15 ND	6.5	NC NC	14	4 ND	14
Trichloroethene Vinyl Chloride	2	ND	2.11 ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	NC NC	NC NC	ND ND	ND ND	NC NC	0.51 ND	ND	0.2 ND
CVOCs, Total	NS	104	86.34	120	25	62	50	19	12.55	80	11	18	10	15	7.3	15	NC	NC	15	6.5	NC	14.51	4	14.2
MW-2																								
cis-1,2-Dichloroethene	5	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	11	14	ND	ND	5.1	6	3.7	5.2	5	3.6	7.5	4.7	6.1	5.6	9.1	9.1	3	4.7	7.9	5.6	6.5	1.83	2
Trichloroethene Vinyl Chloride	5	3 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.65 ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.5 ND	ND ND	ND ND
CVOCs, Total	NS NS	25	14	0	0	5.1	6	3.7	5.2	5	3.6	7.5	4.7	6.1	5.6	9.75	9.1	3	4.7	7.9	5.6	7	1.83	2
MW-3																								
cis-1,2-Dichloroethene	5	97	14	ND	6	1.8	ND	17	18	6.9	27	100	79	67	100	ND	72	61	45	ND	NC	NC	NC	NC
Tetrachloroethene	5	54	ND	ND	ND	1.1	3.7	3.2	4.6	2.8	6.4	20	54	37	13	ND	11	12	3.7	ND	NC	NC	NC	NC
Trichloroethene	5	9	0.7 ND	ND	ND ND	1.2	9.1 4.6	7.4	6.5	2.2	6	7.1	6.9	6.3	2.4	0.78 ND	4.4	4	1.1 2.8	ND ND	NC	NC NC	NC	NC
Vinyl Chloride CVOCs, Total	2 NS	5 165	14.7	ND 0	6	ND 4.1	17.4	31.9	4 33.1	14.1	6.2 45.6	13 140.1	6.5 146.4	8.5 118.8	5.9 121.3	0.78	100.4	10 87	52.6	ND 0	NC NC	NC NC	NC NC	NC NC
MW-4	145	103	14.7	Ü	0	4.1	17.4	31.3	33.1	14.1	75.0	140.1	140.4	110.0	121.5	0.70	100.4	07	32.0	Ü	NC	IVC	NC	IVC
cis-1,2-Dichloroethene	5	3	ND	ND	ND	0.77	ND	3	2	0.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	30	ND	ND	0.66	ND
Tetrachloroethene	5	65	ND	ND	ND	0.82	5.6	1.8	0.98	2.2	2.2	1.2	ND	ND	ND	ND	ND	ND	ND	8.4	2.6	2	0.67	0.4
Trichloroethene	5	7	ND	ND	8	1.8	12	3.9	0.52	0.54	0.64	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	0.75	0.83	ND
Vinyl Chloride	2	ND	ND	ND	ND 0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND 0	6.3	ND	ND	ND	ND
CVOCs, Total	NS	75	0	0	8	3.39	17.6	8.7	3.5	3.27	2.84	1.2	0	0	0	0	0	0	0	47.5	2.6	2.75	2.16	0.4
MW-5 cis-1,2-Dichloroethene	5	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	ND	ND	ND	ND	NC	ND	NC	2.7	0.84	ND
Tetrachloroethene	5	NC	11	ND	ND	ND	ND	ND	ND	4.8	ND	0.53	ND	NC	ND	ND	6.2	1.9	NC	ND	NC	1	9.88	4.2
Trichloroethene	5	NC	6	ND	6	1.1	ND	1.1	ND	2.5	1.2	ND	ND	NC	ND	ND	0.55	0.78	NC	ND	NC	4.1	2.62	0.6
Vinyl Chloride	2	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	ND	ND	ND	ND	NC	ND	NC	ND	ND	ND
CVOCs, Total	NS	NC	17	0	6	1.1	0	1.1	0	7.3	1.2	0.53	0	NC	0	0	6.75	2.68	NC	0	NC	7.8	13.34	4.8
MW-6	-	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NG	NC	ND	ND	NC	ND	ND	ND	2.0	1.04	1.4
cis-1,2-Dichloroethene Tetrachloroethene	5	NC NC	ND 2	ND ND	ND ND	ND 2.2	ND 2.3	ND 2.1	ND 4.3	ND 6.5	ND 2.8	ND 15	NC NC	NC NC	NC NC	ND 2.2	ND 3.3	NC NC	ND 2.1	ND 2.6	ND 3.3	3.8 1.1	1.94 ND	1.4 0.49
Trichloroethene	5	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	NC	NC	NC	ND	ND	NC	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC	NC	ND	ND	NC	ND	ND	ND	ND	ND	ND
CVOCs, Total	NS	NC	2	0	0	2.2	2.3	2.1	4.3	6.5	2.8	15	NC	NC	NC	2.2	3.3	NC	2.1	2.6	3.3	4.9	1.94	1.89
MW-7																								
cis-1,2-Dichloroethene	5	NC	ND 267	27	ND 271	NC NC	ND	ND 130	ND 130	ND 100	ND 140	ND 200	ND 100	ND 110	ND 140	ND 07	ND 170	ND	ND 70	ND 03	ND 140	ND 96	ND	ND FO
Tetrachloroethene Trichloroethene	5	NC	267	530	271	NC NC	240	120	130	100	140	290	190	110	140 1.4	97 0.89	170 2.2	98	70	92	140	86	37	50
	5	NC	16.5	ND			ND	ND										1	0.79	0.95	1.5	0.8	ND	0.46
Vinyl Chloride	5	NC NC	16.5 ND	ND ND	ND ND	NC NC	ND ND	ND ND	ND ND	5.3 ND	ND ND	4.9 ND	2.6 ND	ND	ND	ND	ND	1 ND	0.79 ND	0.95 ND	1.5 ND	0.8 ND	ND ND	0.46 ND
Vinyl Chloride CVOCs, Total														_										
'	2	NC	ND	ND	ND	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CVOCs, Total MW-8 cis-1,2-Dichloroethene	2 NS	NC NC	ND 283.5 NC	ND 557 NC	ND 271 1,022	NC NC	ND 240 210	ND 120 15	ND 130 ND	ND 105.3 ND	ND 140 4.2	ND 294.9	ND 192.6 ND	ND 111	ND 141.4	ND 97.89 30	ND 172.2 ND	ND 99 ND	ND 70.79	ND 92.95 15	ND 141.5	ND 86.8	ND 37 32.1	ND 50.46 50
CVOCs, Total MW-8 cis-1,2-Dichloroethene Tetrachloroethene	2 NS 5	NC NC NC	ND 283.5 NC NC	ND 557 NC NC	ND 271 1,022 5,994	NC NC 440 930	ND 240 210 700	ND 120 15 120	ND 130 ND 120	ND 105.3 ND 240	ND 140 4.2 190	ND 294.9 14 320	ND 192.6 ND 21	ND 1111 21 48	ND 141.4 16 38	ND 97.89 30 33	ND 172.2 ND 120	ND 99 ND 2	ND 70.79 3 40	ND 92.95 15 41	ND 141.5	ND 86.8 30 20	ND 37 32.1 46.3	ND 50.46 50 38
CVOCs, Total MW-8 cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene	2 NS 5 5	NC NC NC NC	ND 283.5 NC NC NC	ND 557 NC	ND 271 1,022	NC NC 440 930 92	240 210 700 25	ND 120 15 120 ND	ND 130 ND	ND 105.3 ND 240 ND	ND 140 4.2	ND 294.9 14 320 18	ND 192.6 ND	ND 111	ND 141.4	ND 97.89 30 33 3.2	ND 172.2 ND 120 5.6	ND 99 ND 2 ND	ND 70.79 3 40 2.1	ND 92.95 15 41 1.3	ND 141.5	ND 86.8	37 32.1 46.3 0.87	ND 50.46 50 38 1.5
CVOCs, Total MW-8 cis-1,2-Dichloroethene Tetrachloroethene	2 NS 5	NC NC NC	ND 283.5 NC NC	ND 557 NC NC	ND 271 1,022 5,994 742	NC NC 440 930	ND 240 210 700	ND 120 15 120	ND 130 ND 120 ND	ND 105.3 ND 240	ND 140 4.2 190 ND	ND 294.9 14 320	ND 192.6 ND 21 0.55	ND 111 21 48 4	ND 141.4 16 38 2.8	ND 97.89 30 33	ND 172.2 ND 120	ND 99 ND 2	ND 70.79 3 40	ND 92.95 15 41	ND 141.5 12 57 1.6	ND 86.8 30 20 1.5	ND 37 32.1 46.3	ND 50.46 50 38
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetra-Dichloroethene Trichloroethene Vinyl Chloride CVOCs, Total	2 NS 5 5 5	NC NC NC NC NC	ND 283.5 NC NC NC NC NC	ND 557 NC NC NC	ND 271 1,022 5,994 742 ND	NC NC 440 930 92 ND	240 210 700 25 ND	120 15 120 ND ND	ND 130 ND 120 ND ND	ND 105.3 ND 240 ND ND	ND 140 4.2 190 ND ND	ND 294.9 14 320 18 ND	ND 192.6 ND 21 0.55 ND	ND 1111 21 48 4 ND	ND 141.4 16 38 2.8 ND	ND 97.89 30 33 3.2 ND	ND 172.2 ND 120 5.6 ND	ND 99 ND 2 ND ND	ND 70.79 3 40 2.1 ND	ND 92.95 15 41 1.3 ND	ND 141.5 12 57 1.6 ND	ND 86.8 30 20 1.5 ND	32.1 46.3 0.87 ND	ND 50.46 50 38 1.5 ND
CVOCs, Total MW-8 cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D cis-1,2-Dichloroethene	2 NS 5 5 5 2 NS	NC	ND 283.5 NC	ND 557 NC NC NC NC NC NC NC NC NC	ND 271 1,022 5,994 742 ND 7,758	NC NC 440 930 92 ND 1462	240 210 700 25 ND 935	120 15 120 ND ND ND 135	ND 130 ND 120 ND 120 ND 120 ND	ND 105.3 ND 240 ND 240 ND 240 ND	ND 140 4.2 190 ND ND 194.2 ND	ND 294.9 14 320 18 ND 352	ND 192.6 ND 21 0.55 ND 21.55	ND 1111 21 48 4 ND 73 ND	ND 141.4 16 38 2.8 ND 56.8	ND 97.89 30 33 3.2 ND 66.2	ND 172.2 ND 120 5.6 ND 125.6	ND 99 ND 2 ND ND 2	ND 70.79 3 40 2.1 ND 45.1	ND 92.95 15 41 1.3 ND 57.3	ND 141.5 12 57 1.6 ND 70.6	ND 86.8 30 20 1.5 ND 51.5	32.1 46.3 0.87 ND 79.27	ND 50.46 50 38 1.5 ND 89.5
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D dis-1,2-Dichloroethene Tetrachloroethene	2 NS 5 5 5 2 NS	NC	ND 283.5 NC	ND 557 NC	ND 271 1,022 5,994 742 ND 7,758 18 308	NC NC 440 930 92 ND 1462 NA	240 210 700 25 ND 935 ND 4.6	ND 120 15 120 ND ND 135 ND 6.4	ND 130 ND 120 ND ND 120 ND 120 ND 5.5	ND 105.3 ND 240 ND ND 240 ND 240	ND 140 4.2 190 ND ND 194.2 ND 1.3	ND 294.9 14 320 18 ND 352 ND 3.6	ND 192.6 ND 21 0.55 ND 21.55	ND 111 21 48 4 ND 73 ND 7.1	ND 141.4 16 38 2.8 ND 56.8 ND 0.97	ND 97.89 30 33 3.2 ND 66.2 ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 164	ND 99 ND 2 ND ND 2 ND ND 2 ND ND 2	ND 70.79 3 40 2.1 ND 45.1 ND 140	ND 92.95 15 41 1.3 ND 57.3 ND 9.2	ND 141.5 12 57 1.6 ND 70.6	ND 86.8 30 20 1.5 ND 51.5 ND	ND 37 32.1 46.3 0.87 ND 79.27 ND	ND 50.46 50 38 1.5 ND 89.5 ND 2.8
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D Cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene	2 NS 5 5 5 2 NS	NC N	ND 283.5 NC	ND 557 NC	ND 271 1,022 5,994 742 ND 7,758 18 308 7	NC NC 440 930 92 ND 1462 NA NA	210 700 25 ND 935 ND 4.6 ND	ND 120 15 120 ND ND ND 135 ND 06.4 ND ND	ND 130 ND 120 ND ND 120 ND 120 ND ND 120 ND	ND 105.3 ND 240 ND ND 240 ND 12 ND	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND	ND 294.9 14 320 18 ND 352 ND 3.6 ND	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND	ND 111 21 48 4 ND 73 ND 7.1 ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND	ND 172.2 ND 120 5.6 ND 125.6 ND 125.6	ND 99 ND 2 ND ND 2 ND ND 2 ND ND 2 ND ND 2	ND 70.79 3 40 2.1 ND 45.1 ND 140 2	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND
CVOCs, Total MW-8 dis-1,2-Dichloroethene Trichloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl Chloride	2 NS 5 5 5 2 NS 5 5 2	NC N	ND 283.5 NC	ND 557 NC	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND	NC NC 930 92 ND 1462 NA NA NA	210 700 25 ND 935 ND 4.6 ND ND	ND 120 15 120 ND ND 135 ND ND 135 ND	ND 130 ND 120 ND 120 ND 120 ND 15.5 ND ND ND ND	ND 105.3 ND 240 ND ND 240 ND 12 ND ND ND	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND ND ND	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND ND	ND 111 21 48 4 ND 73 ND 7.1 ND ND ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND ND	ND 172.2 ND 120 5.6 ND 125.6 ND 125.6 ND 125.7 ND 64 1.2 ND	ND 99 ND 2 ND ND 2 ND ND 2 ND ND 2 ND	ND 70.79 3 40 2.1 ND 45.1 ND 140 2	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND ND	ND 141.5 12 57 1.6 ND 70.6	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND	50.46 50 38 1.5 ND 89.5 ND 2.8 ND ND
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene	2 NS 5 5 5 2 NS	NC N	ND 283.5 NC	ND 557 NC	ND 271 1,022 5,994 742 ND 7,758 18 308 7	NC NC 440 930 92 ND 1462 NA NA	210 700 25 ND 935 ND 4.6 ND	ND 120 15 120 ND ND ND 135 ND 06.4 ND ND	ND 130 ND 120 ND ND 120 ND 120 ND ND 120 ND	ND 105.3 ND 240 ND ND 240 ND 12 ND	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND	ND 294.9 14 320 18 ND 352 ND 3.6 ND	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND	ND 111 21 48 4 ND 73 ND 7.1 ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND	ND 172.2 ND 120 5.6 ND 125.6 ND 125.6	ND 99 ND 2 ND ND 2 ND ND 2 ND ND 2 ND ND 2	ND 70.79 3 40 2.1 ND 45.1 ND 140 2	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND	ND 141.5 12 57 1.6 ND 70.6 ND ND ND ND ND	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND
CVOCs, Total MW-8 dis-1,2-Dichloroethene Trichloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl Chloride	2 NS 5 5 5 2 NS 5 5 2	NC N	ND 283.5 NC	ND 557 NC	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND	NC NC 930 92 ND 1462 NA NA NA	210 700 25 ND 935 ND 4.6 ND ND	ND 120 15 120 ND ND 135 ND ND 135 ND	ND 130 ND 120 ND 120 ND 120 ND 15.5 ND ND ND ND	ND 105.3 ND 240 ND ND 240 ND 12 ND ND ND	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND ND ND	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND ND	ND 111 21 48 4 ND 73 ND 7.1 ND ND ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND ND	ND 172.2 ND 120 5.6 ND 125.6 ND 125.6 ND	ND 99 ND 2 ND ND 2 ND ND 2 ND ND 2 ND	ND 70.79 3 40 2.1 ND 45.1 ND 140 2	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND ND	ND 141.5 12 57 1.6 ND 70.6 ND ND ND ND ND	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND	50.46 50 38 1.5 ND 89.5 ND 2.8 ND ND
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D dis-1,2-Dichloroethene Trichloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-90 dis-1,2-Dichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 5 2 NS	NC N	ND 283.5 NC NC NC NC NC NC NC N	ND 557 NC	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 4.8	ND 120 15 120 ND ND ND 135 ND 6.4 ND N	ND 130 ND 120 ND ND 120 ND ND 120 ND ND 15.5 ND ND ND 3.30	ND 105.3 ND 240 ND ND 12 ND ND 12 ND	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND 1.3 ND ND 1.3	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 3.6 ND ND 3.6	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND 3.8 ND ND 53	ND 111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND 270	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND 0.97 ND 0.97 ND 130	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND 0.76 ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 64 1.2 ND 65.2	ND 99 ND 2 ND ND 2 ND ND 2 ND ND 2 ND ND 2.9 ND ND 130	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 142	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND 9.2 ND ND 9.2	ND 141.5 12 57 1.6 ND 70.6 ND 1 1 ND ND 1 ND 1 1 ND ND 1 1 ND ND 1 1 ND 160	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 0.69 ND 140	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND ND 0.98 ND ND 0.98	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND ND 2.8 ND 130 ND 130
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloride CVOCs, Total MW-8D dis-1,2-Dichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloride CVOCs, Total MW-9 dis-1,2-Dichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 5 2 NS	NC N	ND 283.5 NC NC NC NC NC NC NC N	ND 557 NC	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 4.6	ND 120 15 120 ND ND ND 135 ND 6.4 ND N	ND 130 ND 120 ND ND 120 ND 120 ND ND 120 ND	ND 105.3 ND 240 ND ND 240 ND ND 12 ND ND 240 ND 12 ND ND 12 ND 12	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND 1.3 3.2 280	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND ND ND 3.6	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND 3.8 ND 4.3	ND 1111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND 270 8.9	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND ND 130 13	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 16	ND 99 ND 2 ND ND 2 ND ND 2 ND 2.9 ND ND 130 A47	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 120	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND ND ND ND ND 180 180	ND 141.5 12 57 1.6 ND 70.6 ND 1 1 ND 1 1 ND 1 1	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 0.69 ND 140 7.6	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND N	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND ND 2.8 ND 130 7
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D dis-1,2-Dichloroethene Trichloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-9 dis-1,2-Dichloroethene Tetrachloroethene Tetrachloroethene Tichloroethene Tichloroethene Tichloroethene Tichloroethene Tichloroethene Tichloroethene	2 NS 5 5 5 2 NS 5 5 5 2 NS	NC N	ND	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND	ND 120 15 120 ND ND ND 135 ND 6.4 ND N	ND 130 ND 120 ND ND 120 ND 120 ND 120 ND 120 ND ND ND ND ND ND ND ND 15.5 ND ND 15.5 ND ND 160 ND ND 166 ND	ND 105.3 ND 240 ND ND 240 ND 12 ND 12 ND ND 12	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND 1.3 ND ND ND 1.3 ND ND ND 1.3	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 3.6 ND 22 ND	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND ND 3.8 ND ND 3.8 ND	ND 111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND 270 8.9 ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND 0.97 ND ND 130 13	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND 0.76 ND 0.76 ND 0.76 ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 64 1.2 ND 65.2 ND ND 65.2	ND 99 ND 2 ND ND 2 ND ND 2 ND 130 4.7 ND ND 190 190 190 190 190 190 190 190 190 190	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 120 10 ND	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND 9.2 ND ND 9.2 ND ND 9.2 ND ND 9.2	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND 1 ND ND 1 ND ND 1 ND ND 1	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 0.69 ND ND ND 0.69 ND N	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND 2.8 ND 130 7 ND
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D dis-1,2-Dichloroethene Trichloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-9 dis-1,2-Dichloroethene Tetrachloroethene Tetrachloroethene Tirichloroethene Tirichloroethene Tirichloroethene Tirichloroethene Vinyl Chloride CVOCs, Total	2 NS 5 5 5 2 NS 5 5 5 2 NS	NC N	ND 283.5 NC NC NC NC NC NC NC N	ND 557 NC	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 4.6	ND 120 15 120 ND ND ND 135 ND 6.4 ND N	ND 130 ND 120 ND ND 120 ND 120 ND ND 120 ND	ND 105.3 ND 240 ND ND 240 ND ND 12 ND ND 240 ND 12 ND ND 12 ND 12	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND 1.3 3.2 280	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND ND ND 3.6	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND 3.8 ND 4.3	ND 1111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND 270 8.9	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND ND 130 13	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 16	ND 99 ND 2 ND ND 2 ND ND 2 ND 2.9 ND ND 130 A47	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 120	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND ND ND ND ND 180 180	ND 141.5 12 57 1.6 ND 70.6 ND 1 1 ND 1 1 ND 1 1	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 0.69 ND 140 7.6	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND ND ND ND 106 4.29	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND ND 2.8 ND 130 7
CVOCs, Total MW-8 cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D cis-1,2-Dichloroethene Trichloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-90 cis-1,2-Dichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 5 2 NS	NC N	ND	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND	ND 120 15 120 ND ND ND 135 ND 6.4 ND N	ND 130 ND 120 ND ND 120 ND 120 ND 120 ND 120 ND ND ND ND ND ND ND ND 15.5 ND ND 15.5 ND ND 160 ND ND 166 ND	ND 105.3 ND 240 ND ND 240 ND 12 ND 12 ND ND 12	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND 1.3 ND ND 1.3 ND ND 1.3	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 3.6 ND 22 ND	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND A ND A ND	ND 111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND 270 8.9 ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND 0.97 ND ND 130 13	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND 0.76 ND 0.76 ND 0.76 ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 64 1.2 ND 65.2 ND ND 65.2	ND 99 ND 2 ND ND 2 ND ND 2 ND 130 4.7 ND ND 190 190 190 190 190 190 190 190 190 190	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 120 10 ND	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND 9.2 ND ND 9.2 ND ND 9.2 ND ND 9.2	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND 1 ND ND 1 ND ND 1 ND ND 1	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 0.69 ND ND ND 0.69 ND N	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND 0.98 ND 0.98 ND 0.98 ND 0.98 ND 0.98	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND 2.8 ND 130 7 ND
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D dis-1,2-Dichloroethene Trichloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-9 dis-1,2-Dichloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 5 5 2 NS	NC N	ND 283.5 NC NC NC NC NC NC NC N	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9 ND 201	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 280 10 ND 290	ND 120 15 120 ND ND 135 ND ND 6.4 ND ND ND 135 11 ND ND 131 ND ND ND 131 ND ND ND 131 ND N	ND 130 ND 120 ND ND 120 ND ND 120 ND S.5 ND ND ND 120 ND S.5 ND ND S.5 ND ND 330 16 ND 346	ND 105.3 ND 240 ND ND 240 ND 12 ND 12 ND ND 12 ND ND 12 ND ND 12 ND ND 12	ND 140 140 140 140 140 140 140 140 140 140	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 3.6 ND ND 3.6 ND ND 3.6	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND ND 53 4.3 ND 57.3	ND 1111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND ND 7.1 ND 270 8.9 ND 278.9	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND 130 13 ND 143	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND ND 0.76 ND 270 8 ND 278	ND 172.2 ND 120 5.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 16 ND 176	ND 99 ND 2 ND ND 2 ND ND 2.9 ND ND 2.9 ND ND 130 4.7 ND 134.7	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 120 10 ND 130	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND ND ND 180 15 ND 195	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND 1 ND 1 ND 1 1	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 140 7.6 ND 147.6	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND ND 106 4.29 ND 110.29	ND 50.46 50 38 1.5 ND 89.5 ND ND 2.8 ND ND 130 7 ND 137 ND
CVOCs, Total MW-8 dis-1,2-Dichloroethene Trichloroethene Tetrachloroethene Trichloroethene Tetrachloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 5 2 NS 5 5 5 2 NS	NC N	ND	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9 ND 201 ND 12 ND 12 ND	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 290 ND	ND 120 15 120 ND ND ND 135 ND 6.4 ND ND ND 135 11 ND N	ND 130 ND 120 ND ND 120 ND 120 ND 120 ND ND ND ND ND ND ND ND 130 ND	ND 105.3 ND 240 ND ND ND 12 ND ND ND 12 ND ND ND 12 ND ND ND ND ND ND ND ND ND	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND 1.3	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 3.6 ND 170 22 ND 192 ND N	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND ND 53 4.3 ND ND 57.3	ND 111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND ND 270 ND 278.9 ND 1 ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND 130 ND 1413 ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 ND 176 ND 176	ND 99 ND 2 ND ND 2 ND ND 2 ND 130 ND 134.7 ND 134.7 ND 1.2 ND ND 1.2	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 120 ND 130 ND ND ND ND	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND 9.2 ND ND 180 155 ND 195 ND ND 195	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND 1 ND ND 1 ND ND 10 ND 100 ND 170	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 140 ND 147.6 ND	ND 37 32.1 46.3 0.87 ND 0.98 ND ND 106 4.29 ND 110.29 ND	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND 2.8 ND 130 7 ND 137 ND 0.36 ND ND 0.36
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-8D dis-1,2-Dichloroethene Trichloroethene Trichloroethene Vinyl Chloride CVOCs, Total MW-9 dis-1,2-Dichloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 2 2 S 5 5 2 2 S 5 5 2 2 S 5 5 2 2 S 5 5 2 2 S 5 5 2 S 6 5 7 2 S 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NC N	ND	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9 ND 201 ND N	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 4.6 ND ND ND ND ND ND ND ND ND ND	ND 120 15 120 ND ND 135 ND ND 135 ND ND ND 135 ND ND ND 131 ND ND ND 11 ND ND 311 ND ND 311 ND N	ND 130 ND 120 ND ND 120 ND 120 ND S.5 ND ND ND 120 ND ND ND 120 ND N	ND 105.3 ND 240 ND ND 240 ND 12 ND 12 ND ND 14.1 ND ND 14.1 ND ND 15.1 ND N	ND 140 4.2 190 ND ND 194.2 ND 13 ND ND 12 1.3 ND ND ND 1.3 3.2 280 12 ND 295.2 ND	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 170 22 ND 192 ND	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND ND 53 4.3 ND 57.3 ND	ND ND 1111 21 48 4 ND 73 ND ND 7.1 ND ND 7.1 ND ND 270 8.9 ND 1 ND	ND 141.4 16 38 2.8 ND 56.8 ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND 0.76 ND 0.76 ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 16 ND 176 ND 176 ND ND ND ND	ND 99 ND 2 ND ND 2 ND ND 2 ND ND 3 ND ND 3 ND ND 3 ND ND 130 130 4.7 ND 134.7 ND 134.7	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 142 ND 10 ND 130 ND	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND ND ND 180 15 ND 195 ND N	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND 1 1 ND ND 1 ND ND 1 ND ND 1 ND ND ND 1 ND	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 140 7.6 ND 147.6 ND	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND ND 106 4.29 ND 110.29 ND	ND 50.46 50 38 1.5 ND 89.5 ND ND 2.8 ND 130 7 ND 137 ND 137 ND 0.36 ND
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Tetrachloroethene Trichloroethene Trichloroethene Tichloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 5 2 NS 5 5 5 2 NS	NC N	ND	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9 ND 201 ND 12 ND 12 ND	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 290 ND	ND 120 15 120 ND ND ND 135 ND 6.4 ND ND ND 135 11 ND N	ND 130 ND 120 ND ND 120 ND 120 ND 120 ND ND ND ND ND ND ND ND 130 ND	ND 105.3 ND 240 ND ND ND 12 ND ND ND 12 ND ND ND 12 ND ND ND ND ND ND ND ND ND	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND 1.3	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 3.6 ND 170 22 ND 192 ND N	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND ND 53 4.3 ND ND 57.3	ND 111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND ND 270 ND 278.9 ND 1 ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND 130 ND 1413 ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 ND 176 ND 176	ND 99 ND 2 ND ND 2 ND ND 2 ND 130 ND 134.7 ND 134.7 ND 1.2 ND ND 1.2	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 120 ND 130 ND ND ND ND	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND 9.2 ND ND 180 155 ND 195 ND ND 195	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND 1 ND ND 1 ND ND 10 ND 100 ND 170	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 140 ND 147.6 ND	ND 37 32.1 46.3 0.87 ND 0.98 ND ND 106 4.29 ND 110.29 ND	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND 2.8 ND 130 7 ND 137 ND 0.36 ND ND 0.36
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 2 NS 5 5 2 NS	NC N	ND	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9 ND 201 ND ND 12 ND ND 12	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 4.6 ND N	ND 120 15 120 ND ND 135 ND 6.4 ND ND 6.4 ND ND 6.4 ND ND 6.4 ND 0 11 ND 311 ND	ND 130 ND 120 ND ND 120 ND 120 ND ND 120 ND	ND 105.3 ND 240 ND ND 240 ND ND 12 ND ND 12 ND ND 12 ND ND 12 ND ND ND 12 ND N	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND 1.3 ND ND ND ND ND ND ND 1.3 0 0	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 3.6 ND 170 22 ND 192 ND ND ND ND 0	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND	ND 1111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND 270 8.9 ND 1 ND 1 ND 1 ND 1 ND 1 ND ND 1 ND ND 1 ND ND ND ND ND 1 ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND ND 130 13 ND 143 ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND 0.76 ND 0.76 ND 0.76 ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 16 ND 176 ND 176 ND 176 ND 176 ND 2	ND 99 ND 2 ND ND 2 ND 29 ND 29 ND ND 20 ND 130 4.7 ND 134.7 ND 12.2 ND 12.2	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND ND 130 ND	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND 9.2 ND 180 15 ND 195 ND 195 ND 197 ND 197 ND 197 ND 197 ND 197	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND ND 1 ND ND 1 ND ND 10 ND 170 ND ND 170 ND ND 170 ND	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 147.6 ND	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND 0.98 ND 106 4.29 ND 110.29 ND ND ND 0.98	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND 2.8 ND 130 7 ND 137 ND 0.36 ND 0.36
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Tetrachloroethene Trichloroethene Trichloroethene Tichloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 2 2 S 5 5 2 2 S 5 5 2 2 S 5 5 2 2 S 5 5 2 2 S 5 5 2 S 6 5 7 2 S 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NC N	ND	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9 ND 201 ND N	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 4.6 ND ND ND ND ND ND ND ND ND ND	ND 120 15 120 ND ND 135 ND ND 135 ND ND ND 135 ND ND ND 131 ND ND ND 11 ND ND 311 ND ND 311 ND N	ND 130 ND 120 ND ND 120 ND 120 ND S.5 ND ND ND 120 ND ND ND 120 ND N	ND 105.3 ND 240 ND ND 240 ND 12 ND 12 ND ND 14.1 ND ND 14.1 ND ND 15.1 ND N	ND 140 4.2 190 ND ND 194.2 ND 13 ND ND 12 1.3 ND ND ND 1.3 3.2 280 12 ND 295.2 ND	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 170 22 ND 192 ND	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND ND 53 4.3 ND 57.3 ND	ND ND 1111 21 48 4 ND 73 ND ND 7.1 ND ND 7.1 ND ND 270 8.9 ND 1 ND	ND 141.4 16 38 2.8 ND 56.8 ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND 0.76 ND 0.76 ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76	ND 172.2 ND 120 5.6 ND 125.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 16 ND 176 ND 176 ND ND ND ND	ND 99 ND 2 ND ND 2 ND ND 2 ND ND 3 ND ND 3 ND ND 3 ND ND 130 130 4.7 ND 134.7 ND 134.7	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 142 ND 10 ND 130 ND	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND ND ND 180 15 ND 195 ND N	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND 1 1 ND ND 1 ND ND 1 ND ND 1 ND ND ND 1 ND	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 140 7.6 ND 147.6 ND	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND ND 106 4.29 ND 110.29 ND	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND ND 130 7 ND 137 ND 137 ND 137 ND ND ND 137 ND N
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 7 8 8 8 8 8 8 8 8 8 8 8 8	NC N	ND	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9 ND 201 ND ND 12 ND ND ND	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND 4.6 ND N	ND 120 15 120 ND ND ND 135 ND 6.4 ND 6.4 ND SO 11 ND 311 ND ND ND ND ND 11 ND	ND 130 ND 120 ND ND 120 ND ND 120 ND	ND 105.3 ND 240 ND ND 240 ND 12 ND 12 ND 12 ND 12 ND 12 ND 12 ND 10 10 10 10 10 10 10 10 10 10	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND 1.3 ND 1.3 ND 1.3 ND 1.3 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND ND 1.0 ND	ND 294.9 14 320 18 ND 352 ND 3.6 ND 170 22 ND 192 ND	ND 192.6 ND 21 0.55 ND 21.55 ND 3.8 ND ND 3.8 ND	ND 111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND 270 8.9 ND 1 ND ND 1 ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND 130 13 ND 143 ND 143 ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.76 ND ND 0.86 ND ND 0.86 ND ND 0.86	ND 172.2 ND 120 5.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 16 ND 176 ND 2 ND ND 2 ND N	ND 99 ND 2 ND ND 2 ND ND 2.9 ND ND 2.9 ND ND 130 4.7 ND 134.7 ND 12 ND ND 1.2 ND ND ND 1.2	ND 70.79 3 40 2.1 ND 45.1 ND 140 2 ND 142 ND 130 ND	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND 9.2 ND ND 9.2 ND ND 0.77 ND	ND 141.5 12 57 1.6 ND 70.6 ND 1 ND	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 0.69 ND ND 140 7.6 ND 147.6 ND N	ND 37 32.1 46.3 0.87 ND 0.98 ND 0.98 ND 110.29 ND	ND 50.46 38 1.5 ND 89.5 ND 2.8 ND 2.8 ND 130 7 ND 137 ND 0.36 ND ND 0.36 ND
CVOCs, Total MW-8 dis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Trichloroethene	2 NS 5 5 5 2 NS 5 5 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NC N	ND	ND	ND 271 1,022 5,994 742 ND 7,758 18 308 7 ND 333 17 175 9 ND 201 ND ND 12 ND ND 12	NC N	ND 240 210 700 25 ND 935 ND 4.6 ND ND 4.6 ND ND ND ND ND ND ND ND ND ND	ND 120 15 120 ND ND 135 ND ND 135 ND ND ND 135 ND ND ND 131 ND ND ND 11 ND ND ND 11 ND ND 11 ND ND 11 ND ND 11 ND N	ND 130 ND 120 ND 120 ND 120 ND ND 120 ND ND ND 120 ND ND ND ND ND 140 ND	ND 105.3 ND 240 ND ND 240 ND ND 12 ND ND 10 ND	ND 140 4.2 190 ND ND 194.2 ND 1.3 ND ND 1.3 3.2 280 12 ND 295.2 ND	ND 294.9 14 320 18 ND 352 ND 3.6 ND ND 170 22 ND 192 ND	ND 192.6 ND 21 0.55 ND 21.55 ND 21.55 ND 3.8 ND ND 3.8 ND	ND ND 1111 21 48 4 ND 73 ND 7.1 ND ND 7.1 ND ND 7.1 ND ND 270 8.9 ND 1 ND 1 ND ND 1 ND ND 1 ND ND ND 1 ND	ND 141.4 16 38 2.8 ND 56.8 ND 0.97 ND ND ND 130 13 ND 143 ND	ND 97.89 30 33 3.2 ND 66.2 ND 0.76 ND 0.76 ND 0.76 ND 0.76 ND 0.86 ND 0.86 ND 0.86	ND 172.2 ND 120 5.6 ND 125.6 ND 125.6 ND 64 1.2 ND 65.2 ND 160 16 ND 176 ND 2 ND ND 2 ND	ND 99 ND 2 ND ND 2 ND ND 2 ND ND 2.9 ND ND 130 4.7 ND 134.7 ND ND 1.2 ND ND 1.2	ND 70.79 3 40 2.1 ND 45.1 ND 45.1 ND 140 2 ND 142 ND 10 ND 130 ND	ND 92.95 15 41 1.3 ND 57.3 ND 9.2 ND ND ND ND ND ND ND ND 180 15 ND 195 ND ND 195 ND	ND 141.5 12 57 1.6 ND 70.6 ND 1 1 ND 1 1 ND 1 ND 1 ND 1 ND 1 ND	ND 86.8 30 20 1.5 ND 51.5 ND 0.69 ND ND 140 7.6 ND	ND 37 32.1 46.3 0.87 ND 79.27 ND 0.98 ND ND 106 4.29 ND 110.29 ND	ND 50.46 50 38 1.5 ND 89.5 ND 2.8 ND ND 130 7 ND 137 ND 0.36 ND ND 0.36 ND ND 9.3

Notes:
(1) NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998, April 2000 addendum (NYSDEC AWQS)

- NS No Standard ND Not detected

ND - Not detected

NA - Not analyzed

NC - Not collected

Bold / Shaded text denotes concentrations exceeding Groundwater Standards.

Location:		Commercial	Commercial	Commercial	Commercial	Residential	Residential	Outdoor Air
Sample ID:		IA001	IA002	IA003	IA004	IA005	SV005	OA001
Corresponding IA:	NYSDOH AGV FOR SOIL VAPOR AND INDOOR AIR	N/A	N/A	N/A	N/A	N/A	IA005	N/A
Sampling Date:	(Soil Vapor/Indoor Air)	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023
Lab Sample ID:	(Son Paper) mass. Amy	L2314229-01	L2314229-02	L2314229-03	L2314229-04	L2314229-05	L2314229-06	L2314229-07
Sample Type:		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Soil Vapor	Outdoor Air
Volatile Organic Compounds (μg/m³)								
1.1.1-Trichloroethane	NS	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	1.09 U	0.109 U
1,1,2,2-Tetrachloroethane	NS	1.37 U			1.37 U	1.37 U		1.37 U
1,1,2-Trichloroethane	NS	1.09 U	1.09 U		1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	NS	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	NS	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.793 U	0.079 U
1,2,4-Trichlorobenzene	NS	1.48 U			1.48 U	1.48 U		1.48 U
1,2,4-Trimethylbenzene	NS	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane	NS	1.54 U			1.54 U	1.54 U		1.54 U
1,2-Dichlorobenzene	NS	1.2 U			1.2 U	1.2 U		1.2 U
1,2-Dichloroethane	NS	0.809 U			0.809 U	0.809 U		0.809 U
1,2-Dichloropropane	NS	0.924 U			0.924 U	0.924 U		0.924 U
1,3,5-Trimethylbenzene	NS	0.983 U		0.983 U	0.983 U	0.983 U		0.983 U
1,3-Butadiene	NS	0.442 U			0.442 U	0.442 U		0.442 U
1,3-Dichlorobenzene	NS NC	1.2 U			1.2 U	1.2 U		1.2 U
1,4-Dichlorobenzene 1.4-Dioxane	NS NS	1.2 U 0.721 U			1.2 U 0.721 U	1.2 U 0.721 U		1.2 U 0.721 U
1,4-Dioxane 2,2,4-Trimethylpentane	NS NS	0.721 U 0.934 U			0.721 U	0.721 U		0.721 U 0.934 U
2,2,4-17Imethylpentane 2-Butanone	NS NS	1.47 U			1.47 U	1.47 U		1.47 U
2-Hexanone	NS NS	0.82 U			0.82 U	0.82 U		0.82 U
3-Chloropropene	NS NS	0.626 U			0.626 U	0.626 U		0.626 U
4-Ethyltoluene	NS NS	0.983 U			0.983 U	0.983 U		0.983 U
4-Methyl-2-pentanone	NS	2.05 U			2.05 U	2.05 U		2.05 U
Acetone	NS NS	4.66	5.11	37.5	5.06	5.8	14.1	4.25
Benzene	NS	0.639 U	0.639 U	0.7	0.639 U	0.639 U	1.03	0.821
Benzyl chloride	NS	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	NS	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	NS	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	NS	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon disulfide	NS	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U		0.623 U
Carbon tetrachloride	NS	0.447	0.396	0.472	0.403	0.39	1.26 U	0.453
Chlorobenzene	NS	0.921 U		0.921 U	0.921 U	0.921 U		0.921 U
Chloroethane	NS	0.528 U			0.528 U	0.528 U		0.528 U
Chloroform	NS	0.977 U			0.977 U	0.977 U		0.977 U
Chloromethane	NS	1.18	1.21	1.2	1.18	1.19	2.68	1.24
cis-1,2-Dichloroethene	NS	0.079 U	0.079 U		0.079 U	0.079 U		0.079 U
cis-1,3-Dichloropropene	NS	0.908 U			0.908 U 0.688 U	0.908 U		0.908 U 0.688 U
Cyclohexane	NS NS				0.688 U	0.688 U		1.7 U
Dibromochloromethane Dichlorodifluoromethane	NS NS	1.7 U 2.26	2.41	2.29	2.36	2.24	1.7 U 2.26	2.44
Ethanol	NS NS	9.69	9.42 U		9.97	9.42 U		9.42 U
Ethyl Acetate	NS NS	1.8 U		1.8 U	1.8 U	1.8 U		1.8 U
Ethylbenzene	NS NS	0.869 U	0.869 U		0.869 U	0.869 U		0.869 U
Freon-113	NS NS	1.53 U	1.53 U		1.53 U	1.53 U		1.53 U
Freon-114	NS	1.4 U	1.4 U		1.4 U	1.4 U		1.4 U
Heptane	NS	0.82 U	0.82 U		0.82 U	0.82 U		0.82 U
Hexachlorobutadiene	NS	2.13 U		2.13 U	2.13 U	2.13 U		2.13 U
Isopropanol	NS	1.35	1.28	5.04	1.23 U	1.29	39.3	3.22
Methyl tert butyl ether	NS	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Methylene chloride	60	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
n-Hexane	NS	0.705 U	0.705 U	0.832	0.705 U	0.705 U	1.37	1.5
o-Xylene	NS	0.869 U			0.869 U	0.869 U		0.869 U
p/m-Xylene	NS	1.74 U			1.74 U	1.74 U		1.74 U
Styrene	NS	0.852 U		0.852 U	0.852 U	0.852 U		0.852 U
Tertiary butyl Alcohol	NS	1.52 U			1.52 U	1.52 U		1.52 U
Tetrachloroethene	30	0.997	0.807	1.04	0.773	1.87	1.7	0.834
Tetrahydrofuran	NS	1.47 U			1.47 U	1.47 U		1.48
Toluene	NS	0.923	0.765	3.69	0.754 U	1.21	38.8	1.59
trans-1,2-Dichloroethene	NS	0.793 U		0.793 U	0.793 U	0.793 U		0.793 U
trans-1,3-Dichloropropene	NS	0.908 U	0.908 U		0.908 U	0.908 U		0.908 U
Trichloroethene	2	0.107 U			0.107 U	0.107 U		0.107 U
Trichlorofluoromethane	NS NS	1.12	1.12 U		1.16	1.24	1.14	1.14
Vinyl bromide	NS NC	0.874 U			0.874 U	0.874 U		0.874 U
Vinyl chloride	NS	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.511 U	0.051 U

- Notes:

 1 Air Guideline Values, NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (applies to indoor air only)

 J. Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).

 U. Not defected at the reported detection limit for the sample.

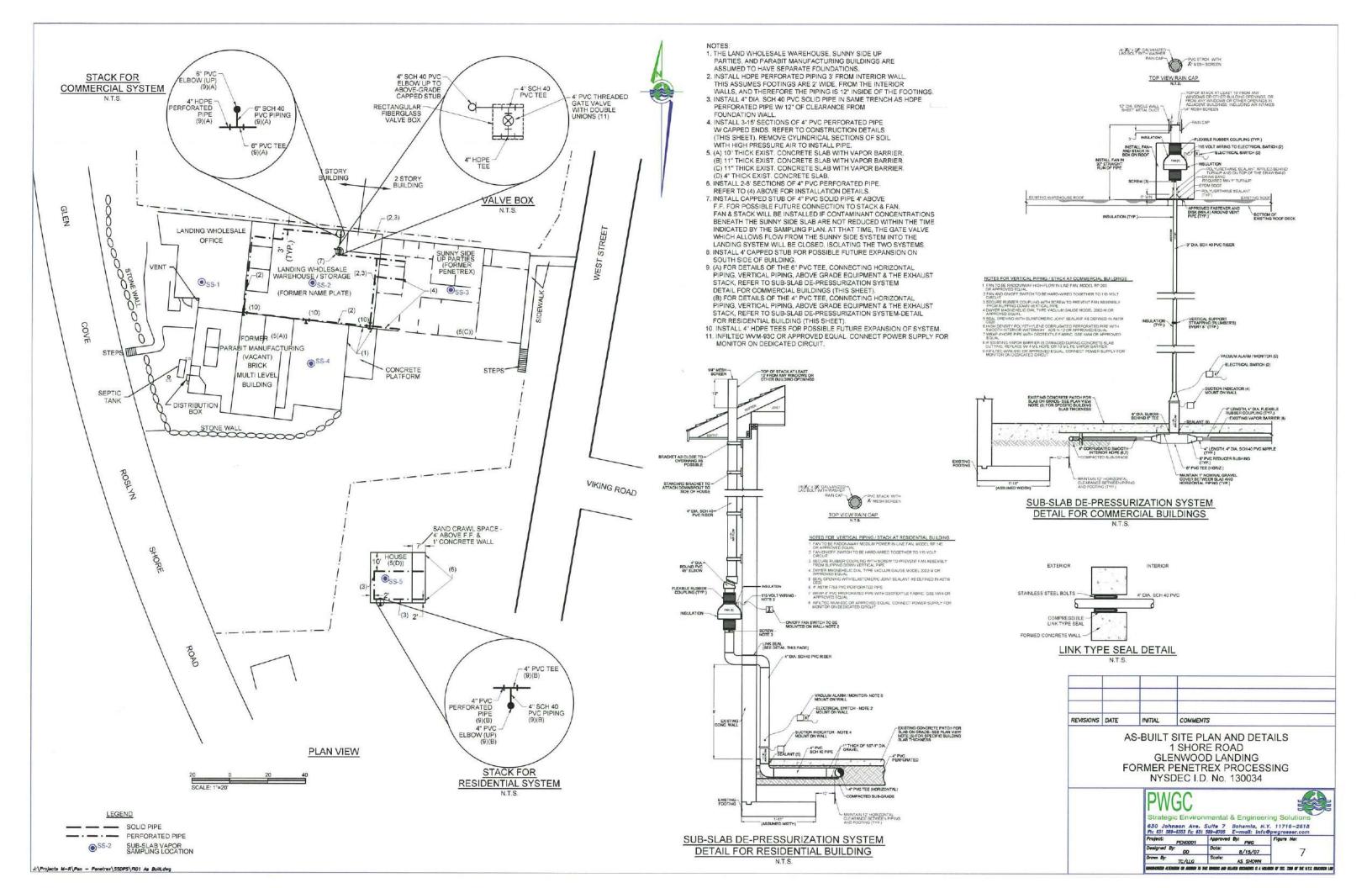
 D. Result is from an analysis that was detected.

Shaded text denotes indoor air concentrations exceed NYSDOH AGV for Action Indipendant of the Coresponding Indoor Air or Soil Vapor Concentration



APPENDIX A







APPENDIX B



Project Name: Former Penetrex Processing Facility Project Number: PEN2301 Reference Elevation (ft): NM Well Use: Monitoring/Observation Product (ft): NP Product Elevation (ft): NM Pr					Well Sc	ımpling Log					
Project Name: Former Penetrex Processing Facility Project Number: PEN2301	Well Designati	on:		٨	1W-1		Sampled By:		KC		
Reference Elevation (ff): NM Well Use: Monitoring/Observation Product (ff): NP Product Elevation (ff): NP ND Product Elevation (ff): MV ALUE! NLM ND Elevation (ff): MV A	Site Address:		1 Sho	ore Road, Gle	enwood Landi	ng, NY	Project Manaç	ger:	Ryar	Morley	
Product Elevation (ff): NP	Project Name:		For	mer Penetre	Processing Fo	acility	Project Numbe	er:	PE	N2301	
Product Elevation (ff): NP											
Depth to Water (ff):	Reference Ele	vation (ft):]	ИМ	Well Use:			Monitoring	y/Observation	
Depth to Bothom (ff): 27.08 Bothom Elevation (ff): NM Well Diameter (in): 4 4 4 4 4 4 4 4 4	Depth to Produ	uct (ft):			NP	Product Elev	ation (ft):			NP	
Note	Depth to Wate	er (ft):		1	8.07	Groundwate	er Elevation (ft):		#\	'ALUE!	
Standing Water Volume (gal): NM Calculated Purge Volume (gal): N/A	Depth to Botto	om (ft):		2	7.08	Bottom Eleve	ation (ft):			NM	
Sample Date: 3/16/2023 Begin Purge Time: 12:30	deight of Wate	er Column (ft)	:	1	ИM	Well Diamet	er (in):			4	
12:45 Complete Purge Time: 12:45 Complete Purge Time: 12:45 Purge Method: Low Flow - Grundfos Purge Rate (gpm): 0.13 Purge Time (min): 15 Actual Purge Volume (gal): 2 Casing Volumes Removed: N/A Sample Appearance: Clear Odors Observed: None Analytical Laboratory: Alpha Analytical Shipped: 3/17/2023 Analyses Requested: VOC (8260) Field Indicator Parameters	standing Wate	er Volume (go	al):	l	ИМ	Calculated I	Purge Volume (g	gal):	1	N/A	
Continue	Sample Date:			3/1	6/2023	Begin Purge	Time:		1	2:30	
Purge Rate (gpm):	Sample Time:			1	2:45	Complete Pu	urge Time:		1	2:45	
Actual Purge Volume (gal): 2 Casing Volumes Removed: N/A	Purge Method	:		Low Flow	/ - Grundfos	Sample Met	hod:		Low Flov	v - Grundfos	
Clear Odors Observed: None	Purge Rate (g	pm):		().13	Purge Time (min):			15	
Analytical Laboratory: Date Shipped: Analyses Requested: VOC (8260) Field Indicator Parameters	Actual Purge \	Volume (gal):	<u>: </u>		2	Casing Volu	mes Removed:			N/A	
Source Shipped: 3/17/2023	Sample Appe	arance:		C	lear	Odors Obser	rved:		None		
Analyses Requested: VOC (8260) Field Indicator Parameters Field Indicator Parameters Reading Time Temp. pH Turbidity ORP Cond. DO mg/L 1 12:30 13.23 6.34 28.7 203 3.160 4.50 2 12:33 13.70 6.22 19.7 209 3.500 5.26 3 12:36 13.81 6.20 18.9 210 3.58 4.72 4 12:39 13.95 6.18 16.0 210 3.62 4.58	Analytical Lab	oratory:		Alpha .	Analytical	Notes:					
Field Indicator Parameters Reading Time Temp.	Date Shipped:	:		3/1	7/2023						
Field Indicator Parameters Reading Time Temp. (°C) pH Turbidity (mS/cm) ORP (mS/cm) Cond. (mS/cm) DO (mS/cm) mg/L 1 12:30 13.23 6.34 28.7 203 3.160 4.50 2 12:33 13.70 6.22 19.7 209 3.500 5.26 3 12:36 13.81 6.20 18.9 210 3.58 4.72 4 12:39 13.95 6.18 16.0 210 3.62 4.58	Analyses Requ	vested:									
Reading Time Temp. (°C) pH Turbidity mV ORP (mS/cm) mg/L DO mg/L 1 12:30 13.23 6.34 28.7 203 3.160 4.50 2 12:33 13.70 6.22 19.7 209 3.500 5.26 3 12:36 13.81 6.20 18.9 210 3.58 4.72 4 12:39 13.95 6.18 16.0 210 3.62 4.58	VOC (8260)										
Reading Time Temp. (°C) pH Turbidity mV ORP (mS/cm) mg/L DO mg/L 1 12:30 13.23 6.34 28.7 203 3.160 4.50 2 12:33 13.70 6.22 19.7 209 3.500 5.26 3 12:36 13.81 6.20 18.9 210 3.58 4.72 4 12:39 13.95 6.18 16.0 210 3.62 4.58											
Reading Time Temp. (°C) pH Turbidity mV ORP (mS/cm) mg/L DO mg/L 1 12:30 13.23 6.34 28.7 203 3.160 4.50 2 12:33 13.70 6.22 19.7 209 3.500 5.26 3 12:36 13.81 6.20 18.9 210 3.58 4.72 4 12:39 13.95 6.18 16.0 210 3.62 4.58					First day all a						
(°C) NTU mV (mS/cm) mg/L 1 12:30 13.23 6.34 28.7 203 3.160 4.50 2 12:33 13.70 6.22 19.7 209 3.500 5.26 3 12:36 13.81 6.20 18.9 210 3.58 4.72 4 12:39 13.95 6.18 16.0 210 3.62 4.58	Poadina	Timo	Tomp	ъЦ	1			DO	1		
1 12:30 13.23 6.34 28.7 203 3.160 4.50 2 12:33 13.70 6.22 19.7 209 3.500 5.26 3 12:36 13.81 6.20 18.9 210 3.58 4.72 4 12:39 13.95 6.18 16.0 210 3.62 4.58	Redding	iirie		рп	1	_					
2 12:33 13.70 6.22 19.7 209 3.500 5.26 3 12:36 13.81 6.20 18.9 210 3.58 4.72 4 12:39 13.95 6.18 16.0 210 3.62 4.58	1	10.20		424			· · · · · · ·				
3 12:36 13.81 6.20 18.9 210 3.58 4.72 4 12:39 13.95 6.18 16.0 210 3.62 4.58											
4 12:39 13.95 6.18 16.0 210 3.62 4.58										<u> </u>	
5 12.42 15.74 0.10 15.4 210 5.05 4.57										 	
	J	12,42	10.74	0.10	13.4	210	3.63	4.37			
							+				
						1	+				
							+				
							+				
							+				
						1	1			-	
							1				
						-	1				

Take readings every three minutes

				Well S	Sampling Log				
Well Designati	ion:			MW-2		Sampled By:			KC
Site Address:		1 Sh	ore Road, G	lenwood Land	ding, NY	Project Mana	ger:	Ryan	Morley
Project Name	:	Fo	rmer Penetre	x Processing I	Facility	Project Numb	er:	PEI	N2301
Reference Ele			١	IM	Well Use:			Monitoring	/Observation
Depth to Prod	uct (ft):		1	NP	Product Elev	ation (ft):			NP
Depth to Wate			9	.86	Groundwate	r Elevation (ft):		#V	ALUE!
Depth to Botto	• •		18	3.15	Bottom Eleve	ation (ft):		1	NM
Height of Wate	=	=	٨	IM	Well Diamete	• •			4
Standing Wate		al):		IM		urge Volume (gal):		N/A
Sample Date:				/2023	Begin Purge				7:23
Sample Time:				:55	Complete Pu				7:53
Purge Method				- Grundfos	Sample Met				/ - Grundfos
Purge Rate (g				.18	Purge Time (-			30
Actual Purge) :		5.5		mes Removed:			N/A
Sample Appe				ear	Odors Obser	ved:		N	one
Analytical Lab	=			nalytical	Notes:				
Date Shipped: Analyses Reqi			3/1/	/2023					
					1				
		T - T			cator Paramet			ı	ī
Reading	Time	Temp.	рН	Turbidity	ORP	Cond.	DO		
Ü		(°C)	•	Turbidity NTU	ORP mV	Cond. (mS/cm)	mg/L		
1	7:23	(°C)	5.95	Turbidity NTU 313.0	ORP mV 118	Cond. (m\$/cm) 1.570	mg/L 1.05		
1 2	7:23 7:26	(°C) 11.33 12.32	5.95 5.97	Turbidity NTU 313.0 302.0	ORP mV 118 100	Cond. (m\$/cm) 1.570 1.560	mg/L 1.05 0.00		
1 2 3	7:23 7:26 7:29	(°C) 11.33 12.32 12.54	5.95 5.97 5.97	Turbidity NTU 313.0 302.0 266.0	ORP mV 118 100 97	Cond. (m\$/cm) 1.570 1.560 1.55	mg/L 1.05 0.00 0.00		
1 2 3 4	7:23 7:26 7:29 7:32	(°C) 11.33 12.32 12.54 12.77	5.95 5.97 5.97 5.97	Turbidity NTU 313.0 302.0 266.0 210.0	ORP mV 118 100 97 94	Cond. (m\$/cm) 1.570 1.560 1.55	mg/L 1.05 0.00 0.00 0.00		
1 2 3 4 5	7:23 7:26 7:29 7:32 7:35	(°C) 11.33 12.32 12.54 12.77 12.76	5.95 5.97 5.97 5.97 5.97	Turbidity NTU 313.0 302.0 266.0 210.0 180.0	ORP mV 118 100 97 94 93	Cond. (m\$/cm) 1.570 1.560 1.55 1.54 1.53	mg/L 1.05 0.00 0.00 0.00 0.00		
1 2 3 4 5 6	7:23 7:26 7:29 7:32 7:35 7:38	(°C) 11.33 12.32 12.54 12.77 12.76 13.03	5.95 5.97 5.97 5.97 5.97 5.96	Turbidity NTU 313.0 302.0 266.0 210.0 180.0	ORP mV 118 100 97 94 93 89	Cond. (m\$/cm) 1.570 1.560 1.55 1.54 1.53	mg/L 1.05 0.00 0.00 0.00 0.00 0.00		
1 2 3 4 5 6 7	7:23 7:26 7:29 7:32 7:35 7:38 7:41	(°C) 11.33 12.32 12.54 12.77 12.76 13.03 12.98	5.95 5.97 5.97 5.97 5.97 5.96 5.96	Turbidity NTU 313.0 302.0 266.0 210.0 180.0 153.0 147.0	ORP mV 118 100 97 94 93 89	Cond. (mS/cm) 1.570 1.560 1.55 1.54 1.53 1.53	mg/L 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00		
1 2 3 4 5 6 7	7:23 7:26 7:29 7:32 7:35 7:38 7:41 7:44	(°C) 11.33 12.32 12.54 12.77 12.76 13.03 12.98 12.90	5.95 5.97 5.97 5.97 5.97 5.96 5.96 5.96	Turbidity NTU 313.0 302.0 266.0 210.0 180.0 153.0 147.0	ORP mV 118 100 97 94 93 89 89	Cond. (m\$/cm) 1.570 1.560 1.55 1.54 1.53 1.53 1.50 1.43	mg/L 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00		
1 2 3 4 5 6 7	7:23 7:26 7:29 7:32 7:35 7:38 7:41	(°C) 11.33 12.32 12.54 12.77 12.76 13.03 12.98	5.95 5.97 5.97 5.97 5.97 5.96 5.96	Turbidity NTU 313.0 302.0 266.0 210.0 180.0 153.0 147.0	ORP mV 118 100 97 94 93 89	Cond. (mS/cm) 1.570 1.560 1.55 1.54 1.53 1.53	mg/L 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00		
1 2 3 4 5 6 7 8	7:23 7:26 7:29 7:32 7:35 7:38 7:41 7:44 7:47	(°C) 11.33 12.32 12.54 12.77 12.76 13.03 12.98 12.90 12.86	5.95 5.97 5.97 5.97 5.97 5.96 5.96 5.97 5.97	Turbidity NTU 313.0 302.0 266.0 210.0 180.0 153.0 147.0 115.0 86.2	ORP mV 118 100 97 94 93 89 89 88 88	Cond. (m\$/cm) 1.570 1.560 1.55 1.54 1.53 1.53 1.50 1.43	mg/L 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00		
1 2 3 4 5 6 7 8 9	7:23 7:26 7:29 7:32 7:35 7:38 7:41 7:44 7:47	(°C) 11.33 12.32 12.54 12.77 12.76 13.03 12.98 12.90 12.86 12.73	5.95 5.97 5.97 5.97 5.97 5.96 5.96 5.97 5.97 5.98	Turbidity NTU 313.0 302.0 266.0 210.0 180.0 153.0 147.0 115.0 86.2 57.0	ORP mV 118 100 97 94 93 89 89 89 88	Cond. (mS/cm) 1.570 1.560 1.55 1.54 1.53 1.53 1.50 1.43 1.44	mg/L 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00		
1 2 3 4 5 6 7 8 9	7:23 7:26 7:29 7:32 7:35 7:38 7:41 7:44 7:47	(°C) 11.33 12.32 12.54 12.77 12.76 13.03 12.98 12.90 12.86 12.73	5.95 5.97 5.97 5.97 5.97 5.96 5.96 5.97 5.97 5.98	Turbidity NTU 313.0 302.0 266.0 210.0 180.0 153.0 147.0 115.0 86.2 57.0	ORP mV 118 100 97 94 93 89 89 89 88	Cond. (mS/cm) 1.570 1.560 1.55 1.54 1.53 1.53 1.50 1.43 1.44	mg/L 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00		
1 2 3 4 5 6 7 8 9	7:23 7:26 7:29 7:32 7:35 7:38 7:41 7:44 7:47	(°C) 11.33 12.32 12.54 12.77 12.76 13.03 12.98 12.90 12.86 12.73	5.95 5.97 5.97 5.97 5.97 5.96 5.96 5.97 5.97 5.98	Turbidity NTU 313.0 302.0 266.0 210.0 180.0 153.0 147.0 115.0 86.2 57.0	ORP mV 118 100 97 94 93 89 89 89 88	Cond. (mS/cm) 1.570 1.560 1.55 1.54 1.53 1.53 1.50 1.43 1.44	mg/L 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00		

P.W. GR	ROSSER	CONSU	ILTING,	Inc					
				Well	Sampling Log				
Well Designat	ion:			MW-3		Sampled By:			KC
Site Address:		1 Sh	ore Road, G	lenwood Lan	ding, NY	Project Mana	ger:	Ryan	Morley
Project Name) :	Foi	rmer Penetre	ex Processing	Facility	Project Numb	er:	PEN	N2301
					_				
Reference Ele			1	ИM	Well Use:			_	/Observation
Depth to Prod				-	Product Elev				NP
Depth to Wate				-		er Elevation (ft):			ALUE!
Depth to Botto		_		-	Bottom Elev			1	٧M
Height of Wat				NM	Well Diamet				4
Standing Water		al):	1	/M		Purge Volume ((gal):		N/A
Sample Date:				-	Begin Purge				-
Sample Time:				-	Complete P	-			-
Purge Method				-	Sample Me				-
Purge Rate (g				-	Purge Time				-
Actual Purge):		-	_	mes Removed:			-
Sample Appe			41.1	-	Odors Obse				-
Analytical Lat				Analytical	Notes:	Not sampled	; well destroye	ea	
Date Shipped Analyses Req			3/1/	7/2023					
				Field Indi	cator Parame	tors			
Reading	Time	Temp.	рН	Turbidity	ORP	Cond.	DO	I	
Redding	IIIIIG	(°C)	рп	NTU	mV	(mS/cm)	mg/L		
		()		1110	1117	(11107 C111)	1119/1		
					1				
				1					
				1					
	I						I	I	

Well Designation: Site Address: Project Name: Reference Elevati Depth to Product Depth to Water (fi Depth to Bottom (Height of Water C Standing Water V Sample Date: Sample Time: Purge Method: Purge Rate (gpm) Actual Purge Volu Sample Appeara Analytical Labora Date Shipped: Analyses Request	tion (ft): t (ft): (ft): (ft): Column (ft) /olume (gal): unce:	For : :	ore Road, Gomer Penetre N 18 9 18 N 3/16 8 Low Flow	MW-4 Glenwood Landex Processing NM NP 2.20 8.91 NM NM 6/2023 8:20 7 - Grundfos 0.17 1.5	Well Use: Product Eleve Groundwate Bottom Eleve Well Diamete Calculated I Begin Purge Complete Pe Sample Mett Purge Time (Casing Volu	er Elevation (ft): ation (ft): er (in): Purge Volume (g Time: urge Time:	er:	Ryan PEt Monitoring #V t Low Flow	KC n Morley N2301 g/Observation NP 'ALUE! NM 4 N/A 3:10 3:19 v - Grundfos 9
Reference Elevation Depth to Product Depth to Water (fit) Depth to Bottom (fit) Depth to Bottom (fit) Height of Water Construction Standing Water Volume Sample Date: Purge Method: Purge Rate (gpm) Actual Purge Volume Sample Appeara Analytical Labora Date Shipped:	t (ft): (ft): (ft): Column (ft) /olume (gal): Junce:	For : :	mer Penetre P P P R P R P R R R R R R	ex Processing NM NP 2.20 8.91 NM NM 6/2023 3:20 7 - Grundfos 0.17 1.5	Well Use: Product Eleve Groundwate Bottom Eleve Well Diamete Calculated I Begin Purge Complete Pe Sample Mett Purge Time (Casing Volu	Project Number vation (ft): er Elevation (ft): ation (ft): er (in): Purge Volume (grade: Time: urge Time: thod: (min):	er:	Monitoring #V 1 E Low Flow	n/Observation NP /ALUE! NM 4 N/A 3:10 3:19 v - Grundfos
Reference Elevati Depth to Product Depth to Water (fi Depth to Bottom (Height of Water V Sample Date: Sample Time: Purge Method: Purge Rate (gpm) Actual Purge Volu Sample Appeara Analytical Labora Date Shipped:	t (ft): (ft): (ft): Column (ft) /olume (gal): Junce:	: il):	18 9 18 18 18 18 3/16 8 Low Flow	NM NP 2.20 8.91 NM NM 6/2023 8:20 7 - Grundfos 0.17	Well Use: Product Eleve Groundwate Bottom Eleve Well Diamete Calculated I Begin Purge Complete Pe Sample Met Purge Time (Casing Volu	vation (ft): er Elevation (ft): ation (ft): er (in): Purge Volume (s Time: urge Time: hod: (min):		Monitoring #V 1 8 Low Flow	g/Observation NP 'ALUE! NM 4 N/A 3:10 3:19 v - Grundfos
Depth to Product Depth to Water (fi Depth to Bottom (Height of Water C Standing Water V Sample Date: Sample Time: Purge Method: Purge Rate (gpm) Actual Purge Volu Sample Appeara Analytical Labora Date Shipped:	t (ft): (ft): (ft): Column (ft) /olume (gal): Junce:	ıl):	18 9 18 18 19 3/16 8 Low Flow	NP 2.20 8.91 NM NM 6/2023 3:20 7 - Grundfos 0.17	Product Elev Groundwate Bottom Eleve Well Diamet Calculated I Begin Purge Complete Po Sample Met Purge Time (Casing Volu	er Elevation (ft): ation (ft): er (in): Purge Volume (s Time: urge Time: hod: (min):	gal):	#V 1 8 Low Flow	NP YALUE! NM 4 N/A 3:10 3:19 V - Grundfos
Depth to Product Depth to Water (fi Depth to Bottom (Height of Water C Standing Water V Sample Date: Sample Time: Purge Method: Purge Rate (gpm) Actual Purge Volu Sample Appeara Analytical Labora Date Shipped:	t (ft): (ft): (ft): Column (ft) /olume (gal): Junce:	ıl):	18 9 18 18 19 3/16 8 Low Flow	NP 2.20 8.91 NM NM 6/2023 3:20 7 - Grundfos 0.17	Product Elev Groundwate Bottom Eleve Well Diamet Calculated I Begin Purge Complete Po Sample Met Purge Time (Casing Volu	er Elevation (ft): ation (ft): er (in): Purge Volume (s Time: urge Time: hod: (min):	gal):	#V 1 8 Low Flow	NP YALUE! NM 4 N/A 3:10 3:19 V - Grundfos
Depth to Water (fi Depth to Bottom (Height of Water O Standing Water V Sample Date: Sample Time: Purge Method: Purge Rate (gpm) Actual Purge Volu Sample Appeara Analytical Labora Date Shipped:	ft): (ft): Column (ft) /olume (gc n): lume (gal): ance:	ıl):	9 18 18 18 3/16 8 Low Flow	2.20 8.91 NM NM 6/2023 3:20 7 - Grundfos 0.17	Groundwate Bottom Eleve Well Diamete Calculated I Begin Purge Complete Pt Sample Met Purge Time (Casing Volu	er Elevation (ft): ation (ft): er (in): Purge Volume (s Time: urge Time: hod: (min):	gal):	#V 1 1 8 8 Low Flow	YALUE! NM 4 N/A 3:10 3:19 V - Grundfos
Depth to Bottom (Height of Water Control of Water Volume Porter Formula Time: Purge Method: Purge Rate (gpm) Actual Purge Volume Comple Appeara Analytical Labora Oate Shipped:	(ff): Column (ff) /olume (gc n): lume (gal):	ıl):	18 N N 3/16 8 Low Flow	8.91 NM NM 6/2023 8:20 7 - Grundfos 0.17	Bottom Eleve Well Diamet Calculated I Begin Purge Complete Pu Sample Met Purge Time (Casing Volu	ation (ft): er (in): Purge Volume (g Time: urge Time: thod: (min):	gal):	tow Flow	NM 4 N/A 3:10 3:19 v - Grundfos
Height of Water Containing Water Volume: Comple Date: Comple Time: Courge Method: Courge Rate (gpm) Actual Purge Volume Comple Appeara Analytical Labora Oate Shipped:	Column (ff) /olume (ga	ıl):	3/16 3/16 8 Low Flow	NM S/2023 3:20 7 - Grundfos 0.17	Well Diamete Calculated I Begin Purge Complete Po Sample Mete Purge Time (Casing Volu	er (in): Purge Volume (g Time: urge Time: rhod: (min):	gal):	E Low Flow	4 N/A B:10 B:19 v - Grundfos
Standing Water V Cample Date: Cample Time: Purge Method: Purge Rate (gpm) Actual Purge Volu Cample Appeara Analytical Labora Date Shipped:	/olume (gci): lume (gal): ance:	ıl):	3/16 8 Low Flow	NM 6/2023 3:20 7 - Grundfos 0.17	Calculated I Begin Purge Complete Po Sample Meti Purge Time (Casing Volu	Purge Volume (g Time: urge Time: hod: (min):	gal):	E Low Flow	N/A 3:10 3:19 v - Grundfos
Gample Date: Gample Time: Purge Method: Purge Rate (gpm) Actual Purge Volu Gample Appeara Analytical Laboro Date Shipped:	n): lume (gal): ance:		3/16 8 Low Flow 0	6/2023 3:20 7 - Grundfos 0.17 1.5	Begin Purge Complete Pu Sample Meti Purge Time (Casing Volu	Time: urge Time: hod: (min):	gal):	E Low Flow	3:10 3:19 v - Grundfos
Sample Time: Purge Method: Purge Rate (gpm) Actual Purge Volu Sample Appeara Analytical Laboro Date Shipped:	lume (gal): ance:		Low Flow	3:20 7 - Grundfos 3.17 1.5	Complete Po Sample Met Purge Time (Casing Volu	urge Time: hod: (min):		Low Flow	8:19 v - Grundfos
Purge Method: Purge Rate (gpm) Actual Purge Volu Sample Appeara Analytical Laboro Date Shipped:	lume (gal): ance:		Low Flow 0	r - Grundfos).17 1.5	Sample Met Purge Time (Casing Volu	rhod: (min):		Low Flow	v - Grundfos
Purge Rate (gpm) Actual Purge Volu Sample Appeara Analytical Laboro Date Shipped:	lume (gal): ance:		0).17 1.5	Purge Time (Casing Volu	(min):			
Actual Purge Volu Sample Appeara Analytical Laboro Date Shipped:	lume (gal): ance:			1.5	Casing Volu			٨	9
Sample Appeara Analytical Laboro Date Shipped:	ance:					mes Removed:		N	
Analytical Laboro Date Shipped:			C	logr					N/A
Date Shipped:	atory:				Odors Obser	rved:		N	lone
				Analytical	Notes:				
			3/17	7/2023					
		T _ T			cator Parame				T
Reading	Time	Temp.	рН	Turbidity	ORP	Cond.	DO		
		(°C)		NTU	mV	(mS/cm)	mg/L		
1	8:10	9.26	6.63	26.9	31	0.335	1.09		
2	8:13	10.62	6.17	0.0	99	0.347	0.62	1	
3	8:16	10.13	6.19	0.0	105	0.35	0.13	1	
4	8:19	10.14	6.21	0.0	108	0.36	0.11	1	
				1				1	<u> </u>
				1				1	
				1	-			1	
								1	
								1	
				+				1	
				1					
				1				-	
								1	

Well Designation				Well	Sampling Log				
Site Address:	on:			MW-5		Sampled By:			KC
Jiic / (aai coo.		1 Sh	ore Road, G	Glenwood Lan	ding, NY	Project Mana	ger:	Ryar	Morley
Project Name:		Fo	rmer Penetre	ex Processing	Facility	Project Numb	er:	PE	N2301
Reference Elev	ration (ft):		1	ИМ	Well Use:			Monitoring	g/Observation
Depth to Produ	ict (ft):			NP	Product Elev	ation (ft):			NP
Depth to Water	r (ft):		10	0.12	Groundwate	r Elevation (ft):		# V	'ALUE!
Depth to Bottor	m (ft):		2	0.04	Bottom Eleve	ation (ft):			NM
Height of Wate	r Column (ft):	1	1M	Well Diamete	er (in):			4
Standing Water	r Volume (g	al):	1	1M	Calculated F	Purge Volume (gal):	l	N/A
Sample Date:			3/16	3/2023	Begin Purge	Time:		8	3:31
Sample Time:			8	3:50	Complete Pu	-			8:46
Purge Method:			Low Flow	· - Grundfos	Sample Met	nod:		Low Flov	v - Grundfos
Purge Rate (gp	m):		C	0.13	Purge Time (min):			15
Actual Purge V	olume (gal)):		2	Casing Volu	mes Removed:		I	N/A
Sample Appea	rance:		С	lear	Odors Obser	ved:		١	lone
Analytical Lab	oratory:		Alpha /	Analytical	Notes:				
Date Shipped: Analyses Requ			3/17	7/2023					
		1 1			cator Paramet			1	1
Reading	Time	Temp.	рН	Turbidity	ORP	Cond.	DO		
		(°C)		NTU	mV	(mS/cm)	mg/L		
1	8:31	10.25	5.88	147.0	141	1.060	0.46		
2	8:34	10.55	5.75	91.8	162	1.050	0.38		ļ
3	8:37	10.35	5.75	87.3	163	1.07	0.29		
4	8:40	10.22	5.75	76.8	164	1.07	0.28		
5	8:43	10.24	5.75	70.1	164	1.07	0.28		
6	8:46	10.26	5.75	48.9	164	1.07	0.27		
				1	1	 			
				1	1	1			
				1	1	 			
				1	1	 			
		1			_	1			
		1							

P.W. GR	COSSER (CONSU	JLTING,	Inc					
				Well	Sampling Log				
Well Designat Site Address: Project Name			ore Road, G	MW-6 lenwood Lan ex Processing	ding, NY	Sampled By: Project Mana Project Numb	_	Ryan	KC Morley N2301
Reference Ele	vation (ft):			1W	Well Use:			Monitoring	/Observation
Depth to Proc				NP	Product Elev	ration (ft):		_	NP
Depth to Wate				1W		er Elevation (ft):			ALUE!
Depth to Bott				1W					ALUL: VM
· -		١.			Bottom Elev			'	4
Height of Wat				1M	Well Diamet				•
Standing Wat		aı):		1M		Purge Volume (gai):		N/A
Sample Date:				/2023	Begin Purge				-
Sample Time:				1:00	Complete P				-
Purge Method			Polyethyl	lene Bailer	Sample Met			Polyethy	lene Bailer
Purge Rate (g				-	Purge Time				-
Actual Purge		:		-		mes Removed:			-
Sample Appe				y turbid	Odors Obse				one
Analytical La	=			Analytical	Notes:	Grab sample	; install new n	nonitoring well	casing
Date Shipped Analyses Rea			3/17	/2023					
				Field Indi	cator Parame	ters			
Reading	Time	Temp. (°C)	рН	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L		
						1			
						1			

Well Designatio				Well	Sampling Log				
Sita Address:	on:			MW-7		Sampled By:			KC
Jile Addiess.		1 Sh	ore Road, G	Glenwood Land	ding, NY	Project Mana	ger:	Ryar	Morley
Project Name:		Foi	rmer Penetre	ex Processing	Facility	Project Numb	er:	PE	N2301
Reference Elev	ration (ft):		1	ИМ	Well Use:			Monitoring	y/Observation
Depth to Produ	ct (ft):			NP	Product Elev	ation (ft):			NP
Depth to Water	r (ft):		18	8.43	Groundwate	r Elevation (ft):		#\	'ALUE!
Depth to Bottor	m (ft):		2	9.15	Bottom Eleve	ation (ft):			NM
Height of Wate	r Column (ff):	1	ИM	Well Diamete	er (in):			4
Standing Water	r Volume (g	al):	1	ИМ	Calculated I	Purge Volume (gal):	l	N/A
Sample Date:			3/16	6/2023	Begin Purge	Time:		1	2:05
Sample Time:				2:20	Complete Pu	-		1	2:20
Purge Method:			Low Flow	· - Grundfos	Sample Met	nod:		Low Flov	v - Grundfos
Purge Rate (gp	om):		C).20	Purge Time (min):			15
Actual Purge V	olume (gal)	:		3	Casing Volu	mes Removed:		I	N/A
Sample Appea	ırance:		С	lear	Odors Obser	ved:		١	lone
Analytical Labo	oratory:		Alpha /	Analytical	Notes:				
Date Shipped:			3/17	7/2023					
		1 1			cator Paramet			1	
Reading	Time	Temp.	рН	Turbidity	ORP	Cond.	DO		
		(°C)		NTU	mV	(mS/cm)	mg/L		
1	12:05	13.80	6.40	809.0	202	1.940	5.79		
2	12:08	14.18	6.39	608.0	206	2.340	5.53		
3	12:11	14.30	6.40	385.0	207	2.48	5.35		
4	12:14	14.41	6.42	143.0	207	2.49	5.24		
5	12:17	14.41	6.41	82.2	208	2.57	5.17		
6	12:20	14.43	6.42	40.8	208	2.64	5.12		
						 			
						 			
				1		-			
				1		-			<u> </u>
									1
		+ +							

				Well S	ampling Log				
Well Designati	ion:			MW-8		Sampled By:			KC
Site Address:		1 SI	hore Road, C	Glenwood Land	ding, NY	Project Manag	jer:	Ryar	n Morley
Project Name	:	Fo	ormer Penetr	ex Processing F	acility	Project Numbe	er:	PE	N2301
,									
Reference Ele	vation (ft):			NM	Well Use:			Monitoring	g/Observation
Depth to Prod	uct (ft):			NP	Product Elev	ation (ft):			NP
Depth to Wate	er (ft):		1	6.03	Groundwate	er Elevation (ft):		#\	/ALUE!
Depth to Botto	om (ft):		2	23.28	Bottom Eleve	ation (ft):			NM
Height of Wate	er Column (fl	t):		NM	Well Diamet	er (in):			4
Standing Wate	er Volume (g	al):		NM	Calculated I	Purge Volume (g	jal):		N/A
Sample Date:		<u> </u>	3/1	6/2023	Begin Purge	Time:			9:39
Sample Time:				9:55	Complete Pu	urge Time:			9:51
Purge Method	l:		Low Flov	v - Grundfos	Sample Met	hod:		Low Flov	v - Grundfos
rurge mernoa: Purge Rate (gpm):			(0.17	Purge Time (min):			12
Actual Purge	Volume (gal)):		2	Casing Volu	mes Removed:			N/A
Sample Appe	arance:		C	Clear	Odors Obser	rved:		١	lone
Analytical Lab	ooratory:		Alpha	Analytical	Notes:				
Date Shipped:	:		3/1	7/2023					
Analyses Requ	uested:		σ , .	772020					
	uested:		5, .		cator Paramete	ers			
VOC (8260)	uested:	Temp.		Field Indic	cator Paramete	ers Cond.	DO		T
		Temp.	рН		1				
VOC (8260)		Temp. (°C)		Field Indic	ORP	Cond.	DO mg/L 1.84		
VOC (8260) Reading	Time	(°C)	рН	Field India Turbidity NTU	ORP mV	Cond. (mS/cm)	mg/L		
Reading	Time 9:39	(°C)	рН 5.97	Field India Turbidity NTU 226.0	ORP mV 219	Cond. (m\$/cm) 2.710	mg/L 1.84		
Reading 1 2	7:39 9:42	(°C) 11.86 13.13	pH 5.97 6.28	Field India Turbidity NTU 226.0 24.3	ORP mV 219 200	Cond. (m\$/cm) 2.710 2.880	mg/L 1.84 0.90		
Reading 1 2 3	7ime 9:39 9:42 9:45	(°C) 11.86 13.13 13.77	pH 5.97 6.28 6.34	Field India Turbidity NTU 226.0 24.3 0.0	ORP mV 219 200 185	Cond. (mS/cm) 2.710 2.880 2.96	mg/L 1.84 0.90 0.60		
Reading 1 2 3 4	7ime 9:39 9:42 9:45 9:48	(°C) 11.86 13.13 13.77 13.85	pH 5.97 6.28 6.34 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0	ORP mV 219 200 185 176	Cond. (m\$/cm) 2.710 2.880 2.96 2.95	mg/L 1.84 0.90 0.60 0.50		
Reading 1 2 3 4 5	9:39 9:42 9:45 9:48 9:51	(°C) 11.86 13.13 13.77 13.85 13.83	pH 5.97 6.28 6.34 6.36 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0 0.0	ORP mV 219 200 185 176	Cond. (mS/cm) 2.710 2.880 2.96 2.95 2.72	mg/L 1.84 0.90 0.60 0.50 0.71		
Reading 1 2 3 4 5	9:39 9:42 9:45 9:48 9:51	(°C) 11.86 13.13 13.77 13.85 13.83	pH 5.97 6.28 6.34 6.36 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0 0.0	ORP mV 219 200 185 176	Cond. (mS/cm) 2.710 2.880 2.96 2.95 2.72	mg/L 1.84 0.90 0.60 0.50 0.71		
Reading 1 2 3 4 5	9:39 9:42 9:45 9:48 9:51	(°C) 11.86 13.13 13.77 13.85 13.83	pH 5.97 6.28 6.34 6.36 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0 0.0	ORP mV 219 200 185 176	Cond. (mS/cm) 2.710 2.880 2.96 2.95 2.72	mg/L 1.84 0.90 0.60 0.50 0.71		
Reading 1 2 3 4 5	9:39 9:42 9:45 9:48 9:51	(°C) 11.86 13.13 13.77 13.85 13.83	pH 5.97 6.28 6.34 6.36 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0 0.0	ORP mV 219 200 185 176	Cond. (mS/cm) 2.710 2.880 2.96 2.95 2.72	mg/L 1.84 0.90 0.60 0.50 0.71		
Reading 1 2 3 4 5	9:39 9:42 9:45 9:48 9:51	(°C) 11.86 13.13 13.77 13.85 13.83	pH 5.97 6.28 6.34 6.36 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0 0.0	ORP mV 219 200 185 176	Cond. (mS/cm) 2.710 2.880 2.96 2.95 2.72	mg/L 1.84 0.90 0.60 0.50 0.71		
Reading 1 2 3 4 5	9:39 9:42 9:45 9:48 9:51	(°C) 11.86 13.13 13.77 13.85 13.83	pH 5.97 6.28 6.34 6.36 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0 0.0	ORP mV 219 200 185 176	Cond. (mS/cm) 2.710 2.880 2.96 2.95 2.72	mg/L 1.84 0.90 0.60 0.50 0.71		
Reading 1 2 3 4 5	9:39 9:42 9:45 9:48 9:51	(°C) 11.86 13.13 13.77 13.85 13.83	pH 5.97 6.28 6.34 6.36 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0 0.0	ORP mV 219 200 185 176	Cond. (mS/cm) 2.710 2.880 2.96 2.95 2.72	mg/L 1.84 0.90 0.60 0.50 0.71		
Reading 1 2 3 4 5	9:39 9:42 9:45 9:48 9:51	(°C) 11.86 13.13 13.77 13.85 13.83	pH 5.97 6.28 6.34 6.36 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0 0.0	ORP mV 219 200 185 176	Cond. (mS/cm) 2.710 2.880 2.96 2.95 2.72	mg/L 1.84 0.90 0.60 0.50 0.71		
Reading 1 2 3 4 5	9:39 9:42 9:45 9:48 9:51	(°C) 11.86 13.13 13.77 13.85 13.83	pH 5.97 6.28 6.34 6.36 6.36	Field India Turbidity NTU 226.0 24.3 0.0 0.0 0.0	ORP mV 219 200 185 176	Cond. (mS/cm) 2.710 2.880 2.96 2.95 2.72	mg/L 1.84 0.90 0.60 0.50 0.71		

				Well	Sampling Log				
Vell Designati	ion:		٨	NW-8D		Sampled By:			KC
ite Address:		1 Sh	ore Road, G	lenwood Lan	ding, NY	Project Manaç	jer:	Rya	n Morley
roject Name	:	Fo	rmer Penetre	x Processing	Facility	Project Numbe	er:	PE	N2301
Reference Ele	vation (ft):		١	1M	Well Use:			Monitorin	g/Observation
Depth to Prod	uct (ft):		1	NP	Product Elev	ation (ft):			NP
Depth to Wate	er (ft):		15	5.63	Groundwate	r Elevation (ft):		#	√ALUE!
Depth to Botto	om (ft):		42	2.50	Bottom Eleve	ation (ft):			NM
leight of Wat	er Column (ff):	١	1M	Well Diamete	er (in):			4
standing Wate	er Volume (ge	al):	١	1W	Calculated F	ourge Volume (ç	jal):		N/A
ample Date:			3/16	/2023	Begin Purge	Time:			10:39
ample Time:			11	:10	Complete Pu	urge Time:			11:09
urge Method	l:		Low Flow	- Grundfos	Sample Met	nod:		Low Flo	w - Grundfos
Purge Method: Purge Rate (gpm):			0	.20	Purge Time (min):			30
Actual Purge	Volume (gal)	:		6	Casing Volu	mes Removed:			N/A
ample Appe	arance:		Cl	ear	Odors Obser	ved:		1	Vone
Analytical Lak	oraton/:		Alpha A	nalytical	Notes:				
many mountain	Joiuloty.		,	a rary no ar					
Date Shipped	· · · · · · · · · · · · · · · · · · ·			/2023					
	:								
Date Shipped Analyses Requ	:			/2023		ers			
Date Shipped Analyses Requ /OC (8260)	:	Temp.	3/17	/2023 Field Indi	cator Paramet	ers Cond.	DO		
Date Shipped Analyses Requ	: uested:	Temp.		Field Indi Turbidity	cator Paramet	Cond.			
Date Shipped Analyses Requ /OC (8260)	: uested:	Temp. (°C)	3/17	/2023 Field Indi	cator Paramet	Cond. (mS/cm)	DO mg/L 2.75		
Date Shipped: Analyses Required (OC (8260)	: uested: Time	(°C)	3/17 pH	Field Indi Turbidity NTU	Cator Paramet ORP mV	Cond.	mg/L		
Date Shipped Analyses Required (OC (8260) Reading	time	(°C)	9H 6.39	Field Indi Turbidity NTU >1000	ORP mV 182	Cond. (m\$/cm) 3.560	mg/L 2.75		
Date Shipped: Analyses Required Analyses Required Analyses Required Analyses Required Reading 1 2	Time 10:39 10:42	(°C) 12.28 13.18	pH 6.39 6.37	Field Indi Turbidity NTU >1000 >1000	ORP mV 182	Cond. (m\$/cm) 3.560 3.750	mg/L 2.75 2.79		
Analyses Required (8260) Reading 1 2 3	Time 10:39 10:42 10:45	(°C) 12.28 13.18 13.54	pH 6.39 6.37 6.38	Field Indi Turbidity NTU >1000 >1000 >1000	ORP mV 182 182 181	Cond. (m\$/cm) 3.560 3.750 4.00	mg/L 2.75 2.79 2.82		
Analyses Required (8260) Reading 1 2 3 4	Time 10:39 10:42 10:45 10:48	(°C) 12.28 13.18 13.54 13.78	pH 6.39 6.37 6.38 6.39	Field Indi Turbidity NTU >1000 >1000 >1000 465.0	ORP mV 182 182 181 180	Cond. (mS/cm) 3.560 3.750 4.00 4.18	mg/L 2.75 2.79 2.82 2.88		
Reading 1 2 3 4 5	Time 10:39 10:42 10:45 10:48 10:51	(°C) 12.28 13.18 13.54 13.78 13.80	pH 6.39 6.37 6.38 6.39 6.40	Field Indi Turbidity NTU >1000 >1000 >1000 465.0 430.0	ORP mV 182 182 181 180 178	Cond. (m\$/cm) 3.560 3.750 4.00 4.18 3.88	mg/L 2.75 2.79 2.82 2.88 2.95		
Pate Shipped: Analyses Required Analyses Require	Time 10:39 10:42 10:45 10:48 10:51 10:54	(°C) 12.28 13.18 13.54 13.78 13.80 13.78	9H 6.39 6.37 6.38 6.39 6.40 6.39	Field Indi Turbidity NTU >1000 >1000 >1000 465.0 430.0 277.0	ORP mV 182 182 181 180 178	Cond. (mS/cm) 3.560 3.750 4.00 4.18 3.88 3.67	mg/L 2.75 2.79 2.82 2.88 2.95 3.01		
Reading 1 2 3 4 5 6 7	Time 10:39 10:42 10:45 10:48 10:51 10:54 10:57	(°C) 12.28 13.18 13.54 13.78 13.80 13.78 13.80	pH 6.39 6.37 6.38 6.39 6.40 6.39 6.39	Field Indi Turbidity NTU >1000 >1000 >1000 465.0 430.0 277.0 150.0	ORP mV 182 182 181 180 178	Cond. (mS/cm) 3.560 3.750 4.00 4.18 3.88 3.67 3.58	mg/L 2.75 2.79 2.82 2.88 2.95 3.01 3.08		
Reading 1 2 3 4 5 6 7 8	Time 10:39 10:42 10:45 10:48 10:51 10:54 10:57 11:00	(°C) 12.28 13.18 13.54 13.78 13.80 13.78 13.80 13.78	pH 6.39 6.37 6.38 6.39 6.40 6.39 6.39 6.38	Field Indi Turbidity NTU >1000 >1000 >1000 465.0 430.0 277.0 150.0 88.4	Cator Paramet ORP mV 182 182 181 180 178 178 178	Cond. (mS/cm) 3.560 3.750 4.00 4.18 3.88 3.67 3.58 3.56	mg/L 2.75 2.79 2.82 2.88 2.95 3.01 3.08 3.15		
Reading 1 2 3 4 5 6 7 8 9	Time 10:39 10:42 10:45 10:48 10:51 10:54 10:57 11:00 11:03	(°C) 12.28 13.18 13.54 13.78 13.80 13.78 13.80 13.78 13.81	pH 6.39 6.37 6.38 6.39 6.40 6.39 6.39 6.38 6.39	Field Indi Turbidity NTU >1000 >1000 >1000 465.0 430.0 277.0 150.0 88.4 61.3	Cator Paramet ORP mV 182 182 181 180 178 178 178 178	Cond. (ms/cm) 3.560 3.750 4.00 4.18 3.88 3.67 3.58 3.56 3.54	mg/L 2.75 2.79 2.82 2.88 2.95 3.01 3.08 3.15 3.20		
Pate Shipped: Analyses Required Analyses Require	Time 10:39 10:42 10:45 10:48 10:51 10:54 10:57 11:00 11:03 11:06	(°C) 12.28 13.18 13.54 13.78 13.80 13.78 13.80 13.78 13.81	9H 6.39 6.37 6.38 6.39 6.40 6.39 6.39 6.39 6.39 6.39	Field Indi Turbidity NTU >1000 >1000 >1000 465.0 430.0 277.0 150.0 88.4 61.3 45.2	Cator Paramet ORP mV 182 182 181 180 178 178 178 178 178	Cond. (mS/cm) 3.560 3.750 4.00 4.18 3.88 3.67 3.58 3.56 3.54	mg/L 2.75 2.79 2.82 2.88 2.95 3.01 3.08 3.15 3.20 3.20		
Pate Shipped: Analyses Required Analyses Require	Time 10:39 10:42 10:45 10:48 10:51 10:54 10:57 11:00 11:03 11:06	(°C) 12.28 13.18 13.54 13.78 13.80 13.78 13.80 13.78 13.81	9H 6.39 6.37 6.38 6.39 6.40 6.39 6.39 6.39 6.39 6.39	Field Indi Turbidity NTU >1000 >1000 >1000 465.0 430.0 277.0 150.0 88.4 61.3 45.2	Cator Paramet ORP mV 182 182 181 180 178 178 178 178 178	Cond. (mS/cm) 3.560 3.750 4.00 4.18 3.88 3.67 3.58 3.56 3.54	mg/L 2.75 2.79 2.82 2.88 2.95 3.01 3.08 3.15 3.20 3.20		
Pate Shipped: Analyses Required Analyses Require	Time 10:39 10:42 10:45 10:48 10:51 10:54 10:57 11:00 11:03 11:06	(°C) 12.28 13.18 13.54 13.78 13.80 13.78 13.80 13.78 13.81	9H 6.39 6.37 6.38 6.39 6.40 6.39 6.39 6.39 6.39 6.39	Field Indi Turbidity NTU >1000 >1000 >1000 465.0 430.0 277.0 150.0 88.4 61.3 45.2	Cator Paramet ORP mV 182 182 181 180 178 178 178 178 178	Cond. (mS/cm) 3.560 3.750 4.00 4.18 3.88 3.67 3.58 3.56 3.54	mg/L 2.75 2.79 2.82 2.88 2.95 3.01 3.08 3.15 3.20 3.20		

				Well	Sampling Log				
Well Designati	on:			MW-9		Sampled By:			KC
Site Address:		1 Sh	ore Road, G	enwood Lan	ding, NY	Project Manag	ger:	Ryar	n Morley
Project Name:	:	Fo	rmer Penetre	ex Processing	Facility	Project Numb	er:	PE	N2301
Reference Ele	vation (ft):		1	MM	Well Use:			Monitoring	g/Observation
Depth to Produ	uct (ft):			NP	Product Elev	ation (ft):			NP
Depth to Wate	er (ft):		1.	4.51	Groundwate	er Elevation (ft):		#\	'ALUE!
Depth to Botto	om (ft):		2	3.26	Bottom Elev	ation (ft):			NM
Height of Wate	er Column (fl	t):	1	ИM	Well Diamet	er (in):			4
Standing Wate	er Volume (g	al):		ИМ	Calculated	Purge Volume (gal):		N/A
Sample Date:				6/2023	Begin Purge				9:00
Sample Time:				P:15	Complete P	-			9:12
Purge Method	:		Low Flow	/ - Grundfos	Sample Met			Low Flov	v - Grundfos
Purge Rate (gpm):			C).17	Purge Time (12
Actual Purge \):		2		mes Removed:			N/A
Sample Appe				lear	Odors Obse			١	lone
Analytical Lab	oratory:		Alpha /	Analytical	Notes:	MS/MSD colle	cted		
Date Shipped: Analyses Requ VOC (8260)			3/17	7/2023					
Analyses Requ			3/17		antor Paramo	tore			
Analyses Requ	uested:	Iemn I		Field Indi	cator Parame		DO		T
Analyses Requ		Temp.	3/17 pH	Field Indi	ORP	Cond.	DO mg/l		
Analyses Requ	uested:	Temp. (°C)		Field Indi Turbidity NTU			mg/L		
Analyses Requ VOC (8260) Reading	Time	(°C)	рН	Field Indi	ORP mV	Cond. (mS/cm)			
Analyses Requivoc (8260) Reading	Time 9:00	(°C)	рН 6.51	Field Indi Turbidity NTU 770.0	ORP mV 113	Cond. (m\$/cm)	mg/L 3.53		
Analyses Requivoc (8260) Reading	Time 9:00 9:03	(°C) 11.00 12.25	pH 6.51 6.26	Field Indi Turbidity NTU 770.0 365.0	ORP mV 113 136	Cond. (m\$/cm) 1.160 1.170	mg/L 3.53 2.85		
Reading 1 2 3	Time 9:00 9:03 9:06	(°C) 11.00 12.25 12.57	pH 6.51 6.26 6.25	Field Indi Turbidity NTU 770.0 365.0 111.0	ORP mV 113 136 141	Cond. (mS/cm) 1.160 1.170 1.22	mg/L 3.53 2.85 2.74		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		
Reading 1 2 3 4	Time 9:00 9:03 9:06 9:09	(°C) 11.00 12.25 12.57 12.81	pH 6.51 6.26 6.25 6.24	Field Indi Turbidity NTU 770.0 365.0 111.0 33.6	ORP mV 113 136 141 147	Cond. (m\$/cm) 1.160 1.170 1.22 1.26	mg/L 3.53 2.85 2.74 2.84		

				Well	Sampling Log				
Well Designati	ion:		١	MW-9D	-	Sampled By:			KC
Site Address:		1 Sh	ore Road, G	lenwood Lan	ding, NY	Project Mana	ger:	Ryar	n Morley
Project Name	:	Fo	rmer Penetre	ex Processing	Facility	Project Numb	er:	PE	N2301
Reference Ele	vation (ft):		1	ИМ	Well Use:			Monitoring	g/Observation
Depth to Prod	uct (ft):		ļ	NP	Product Elev	ation (ft):			NP
Depth to Wate	er (ft):		1:	5.28	Groundwate	er Elevation (ft):		#\	/ALUE!
Depth to Botto	om (ft):		4	6.62	Bottom Eleve	ation (ft):			NM
Height of Wate	er Column (fl	t):	1	ИM	Well Diamet	er (in):			4
Standing Wate	er Volume (g	al):		٧M	Calculated I	Purge Volume (gal):		N/A
Sample Date:			3/16	5/2023	Begin Purge	Time:			9:19
Sample Time:				2:35	Complete P	~			9:31
Purge Method	l:		Low Flow	· - Grundfos	Sample Met			Low Flov	v - Grundfos
Purge Rate (gpm):			C).25	Purge Time (min):			12
Actual Purge \	Volume (gal)):		3	Casing Volu	mes Removed:			N/A
Sample Appe	arance:		С	lear	Odors Obse	rved:		1	lone
Analytical Lab	oratory:		Alpha A	Analytical	Notes:	DUP001 collec	cted		
	-								
Date Shipped: Analyses Requ				7/2023					
Analyses Requ				7/2023	and a Parama	·			
Analyses Requ	uested:	I Jamo I	3/17	7/2023 Field Indi	cator Parame		DO	1	1
Analyses Requ		Temp.		Field Indi Turbidity	ORP	Cond.	DO mg/l		1
Analyses Requ VOC (8260) Reading	Time	(°C)	3/17 pH	Field Indi Turbidity NTU	ORP mV	Cond. (mS/cm)	mg/L		
Analyses Requ	uested:	(°C)	9H 7.19	Field Indi Turbidity NTU 49.9	ORP	Cond. (m\$/cm) 0.074	mg/L 10.42		
Analyses Requ VOC (8260) Reading	Time	(°C)	3/17 pH	Field Indi Turbidity NTU	ORP mV 120	Cond. (mS/cm)	mg/L		
Reading 1 2	Time 9:19 9:22	(°C) 11.18 12.41	pH 7.19 6.05	Field Indi Turbidity NTU 49.9 9.5	ORP mV 120 163	Cond. (m\$/cm) 0.074 0.097	mg/L 10.42 10.06		
Reading 1 2 3	Time 9:19 9:22 9:25	(°C) 11.18 12.41 12.43	pH 7.19 6.05 5.93	Field Indi Turbidity NTU 49.9 9.5 1.2	ORP mV 120 163 196	Cond. (mS/cm) 0.074 0.097 0.187	mg/L 10.42 10.06 9.62		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		
Reading 1 2 3 4	Time 9:19 9:22 9:25 9:28	(°C) 11.18 12.41 12.43 12.46	pH 7.19 6.05 5.93 5.56	Field Indi Turbidity NTU 49.9 9.5 1.2 0.0	ORP mV 120 163 196 217	Cond. (m\$/cm) 0.074 0.097 0.187 0.322	mg/L 10.42 10.06 9.62 9.21		

				Well S	Sampling Log				
Vell Designati	ion:		٨	лW-10		Sampled By:			KC
ite Address:		1 Sh	ore Road, G	lenwood Land	ding, NY	Project Mana	ger:	Ryai	n Morley
roject Name	:	Fo	rmer Penetre	ex Processing I	acility	Project Numb	er:	PE	N2301
deference Ele	vation (ft):		١	1W	Well Use:			Monitoring	g/Observation
epth to Prod	uct (ft):		1	NΡ	Product Elev	ation (ft):			NP
epth to Wate	er (ft):		14	4.76	Groundwate	r Elevation (ft):		#\	/ALUE!
epth to Botto	om (ft):		22	2.59	Bottom Eleve	ation (ft):			NM
leight of Wate	= :	=	١	1W	Well Diamete	• •			4
tanding Wate		al):		1M		Purge Volume (gal):		N/A
ample Date:				5/2023	Begin Purge				11:21
ample Time:				1:55	Complete Pu				11:51
urge Method				- Grundfos	Sample Meth			Low Flov	w - Grundfos
urge Rate (gpm): 0.15					Purge Time (-			30
Actual Purge		:		4.5	<u> </u>	mes Removed:			N/A
ample Appe				lear	Odors Obser	ved:		1	None
Analytical Lab	-			Analytical	Notes:				
Date Shipped:	:		3/17	//2023					
Analyses Requ				72020					
Analyses Requ									
Analyses Requ	uested:			Field Indi	cator Paramet				
Analyses Requ		Temp.	рН	Field Indi	ORP	Cond.	DO		
Analyses Requivoc (8260) Reading	uested: Time	(°C)	рН	Field India Turbidity NTU	ORP mV	Cond. (mS/cm)	mg/L		
Analyses Required (8260) Reading	Time	(°C)	рН 6.28	Field India Turbidity NTU >1000	ORP mV 187	Cond. (m\$/cm) 2.700	mg/L 1.59		
Analyses Required (8260) Reading 1 2	Time 11:21 11:24	(°C) 12.54 12.15	pH 6.28 6.12	Field India Turbidity NTU >1000 774.0	ORP mV 187 197	Cond. (m\$/cm) 2.700 2.370	mg/L 1.59 1.50		
Reading 1 2 3	Time 11:21 11:24 11:27	(°C) 12.54 12.15 12.20	pH 6.28 6.12 6.12	Field India Turbidity NTU >1000 774.0 981.0	ORP mV 187 197	Cond. (m\$/cm) 2.700 2.370 2.26	mg/L 1.59 1.50 1.54		
Reading 1 2 3 4	Time 11:21 11:24 11:27 11:30	(°C) 12.54 12.15 12.20 12.78	pH 6.28 6.12 6.12 6.12	Field India Turbidity NTU >1000 774.0 981.0 535.0	ORP mV 187 197 199 201	Cond. (m\$/cm) 2.700 2.370 2.26 2.06	mg/L 1.59 1.50 1.54 1.56		
Reading 1 2 3 4 5	Time 11:21 11:24 11:27 11:30 11:33	(°C) 12.54 12.15 12.20 12.78 12.89	pH 6.28 6.12 6.12 6.12 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0	ORP mV 187 197 199 201 201	Cond. (m\$/cm) 2.700 2.370 2.26 2.06 1.96	mg/L 1.59 1.50 1.54 1.56 1.47		
Reading 1 2 3 4 5 6	Time 11:21 11:24 11:27 11:30 11:33 11:36	(°C) 12.54 12.15 12.20 12.78 12.89 12.95	pH 6.28 6.12 6.12 6.12 6.13 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0 177.0	ORP mV 187 197 199 201 201 200	Cond. (m\$/cm) 2.700 2.370 2.26 2.06 1.96 1.89	mg/L 1.59 1.50 1.54 1.56 1.47 1.39		
Reading 1 2 3 4 5 6 7	Time 11:21 11:24 11:27 11:30 11:33 11:36 11:39	(°C) 12.54 12.15 12.20 12.78 12.89 12.95 13.12	pH 6.28 6.12 6.12 6.13 6.13 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0 177.0 144.0	ORP mV 187 197 199 201 201 200 199	Cond. (mS/cm) 2.700 2.370 2.26 2.06 1.96 1.89	mg/L 1.59 1.50 1.54 1.56 1.47 1.39 1.39		
Reading 1 2 3 4 5 6 7 8	Time 11:21 11:24 11:27 11:30 11:33 11:36 11:39 11:42	(°C) 12.54 12.15 12.20 12.78 12.89 12.95 13.12 13.30	pH 6.28 6.12 6.12 6.12 6.13 6.13 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0 177.0 144.0 97.8	ORP mV 187 197 199 201 201 200	Cond. (m\$/cm) 2.700 2.370 2.26 2.06 1.96 1.89 1.89	mg/L 1.59 1.50 1.54 1.56 1.47 1.39 1.39		
Reading 1 2 3 4 5 6 7	Time 11:21 11:24 11:27 11:30 11:33 11:36 11:39 11:42 11:45	(°C) 12.54 12.15 12.20 12.78 12.89 12.95 13.12 13.30 13.24	pH 6.28 6.12 6.12 6.13 6.13 6.13 6.14 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0 177.0 144.0 97.8 87.3	ORP mV 187 197 199 201 201 200 199 198 199	Cond. (mS/cm) 2.700 2.370 2.26 2.06 1.96 1.89 1.89 1.79	mg/L 1.59 1.50 1.54 1.56 1.47 1.39 1.39		
Reading 1 2 3 4 5 6 7 8 9	Time 11:21 11:24 11:27 11:30 11:33 11:36 11:39 11:42	(°C) 12.54 12.15 12.20 12.78 12.89 12.95 13.12 13.30	pH 6.28 6.12 6.12 6.12 6.13 6.13 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0 177.0 144.0 97.8	ORP mV 187 197 199 201 201 200 199 198	Cond. (m\$/cm) 2.700 2.370 2.26 2.06 1.96 1.89 1.89	mg/L 1.59 1.50 1.54 1.56 1.47 1.39 1.39 1.38 1.40		
Reading 1 2 3 4 5 6 7 8 9 10	Time 11:21 11:24 11:27 11:30 11:33 11:36 11:39 11:42 11:45 11:48	(°C) 12.54 12.15 12.20 12.78 12.89 12.95 13.12 13.30 13.24 13.10	pH 6.28 6.12 6.12 6.13 6.13 6.13 6.14 6.13 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0 177.0 144.0 97.8 87.3 57.6	ORP mV 187 197 199 201 201 200 199 198 199 200	Cond. (mS/cm) 2.700 2.370 2.26 2.06 1.96 1.89 1.89 1.79 1.81	mg/L 1.59 1.50 1.54 1.56 1.47 1.39 1.39 1.38 1.40 1.44		
Reading 1 2 3 4 5 6 7 8 9 10	Time 11:21 11:24 11:27 11:30 11:33 11:36 11:39 11:42 11:45 11:48	(°C) 12.54 12.15 12.20 12.78 12.89 12.95 13.12 13.30 13.24 13.10	pH 6.28 6.12 6.12 6.13 6.13 6.13 6.14 6.13 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0 177.0 144.0 97.8 87.3 57.6	ORP mV 187 197 199 201 201 200 199 198 199 200	Cond. (mS/cm) 2.700 2.370 2.26 2.06 1.96 1.89 1.89 1.79 1.81	mg/L 1.59 1.50 1.54 1.56 1.47 1.39 1.39 1.38 1.40 1.44		
Reading 1 2 3 4 5 6 7 8 9 10	Time 11:21 11:24 11:27 11:30 11:33 11:36 11:39 11:42 11:45 11:48	(°C) 12.54 12.15 12.20 12.78 12.89 12.95 13.12 13.30 13.24 13.10	pH 6.28 6.12 6.12 6.13 6.13 6.13 6.14 6.13 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0 177.0 144.0 97.8 87.3 57.6	ORP mV 187 197 199 201 201 200 199 198 199 200	Cond. (mS/cm) 2.700 2.370 2.26 2.06 1.96 1.89 1.89 1.79 1.81	mg/L 1.59 1.50 1.54 1.56 1.47 1.39 1.39 1.38 1.40 1.44		
Reading 1 2 3 4 5 6 7 8 9 10	Time 11:21 11:24 11:27 11:30 11:33 11:36 11:39 11:42 11:45 11:48	(°C) 12.54 12.15 12.20 12.78 12.89 12.95 13.12 13.30 13.24 13.10	pH 6.28 6.12 6.12 6.13 6.13 6.13 6.14 6.13 6.13	Field India Turbidity NTU >1000 774.0 981.0 535.0 348.0 177.0 144.0 97.8 87.3 57.6	ORP mV 187 197 199 201 201 200 199 198 199 200	Cond. (mS/cm) 2.700 2.370 2.26 2.06 1.96 1.89 1.89 1.79 1.81	mg/L 1.59 1.50 1.54 1.56 1.47 1.39 1.39 1.38 1.40 1.44		

			Air Sampling Log			
Sample ID	Start Time 3/16/2023	Initial Vacuum	Canister ID	Flow Control ID	Final Vacuum	End Time 3/17/2023
IA001	10:00	-30.63	3372	0234	-8.15	9:04
IA002	10:02	-30.60	3565	02267	-8.07	9:02
IA003	10:06	-30.64	3382	02240	-7.07	9:06
IA004	10:04	-29.62	1866	0011	-8.24	9:00
IA005	10:10	-29.60	905	014883	-7.36	8:55
SV005	10:12	-31.08	1530	01212	-9.22	8:57
OA001	10:30	-30.70	2980	0097	-8.07	9:08



APPENDIX C





ANALYTICAL REPORT

Lab Number: L2314139

Client: P. W. Grosser

630 Johnson Avenue

Suite 7

Bohemia, NY 11716

ATTN: Ryan Morley
Phone: (631) 589-6353

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301 Report Date: 03/22/23

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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: FORMER PENETREX PROCESSING

Project Number: PEN2301

 Lab Number:
 L2314139

 Report Date:
 03/22/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2314139-01	MW-1	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 12:45	03/17/23
L2314139-02	MW-2	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 07:55	03/17/23
L2314139-03	MW-4	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 08:20	03/17/23
L2314139-04	MW-5	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 08:50	03/17/23
L2314139-05	MW-6	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 11:00	03/17/23
L2314139-06	MW-7	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 12:20	03/17/23
L2314139-07	MW-8	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 09:55	03/17/23
L2314139-08	MW-8D	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 11:10	03/17/23
L2314139-09	MW-9	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 09:15	03/17/23
L2314139-10	MW-9D	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 09:35	03/17/23
L2314139-11	MW-10	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 11:55	03/17/23
L2314139-12	DUP001	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 00:00	03/17/23
L2314139-13	TRIP BLANK	WATER	1 SHORE RD, GLENWOOD LANDING, NY	03/16/23 00:00	03/17/23



Project Name:FORMER PENETREX PROCESSINGLab Number:L2314139Project Number:PEN2301Report Date:03/22/23

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:FORMER PENETREX PROCESSINGLab Number:L2314139Project Number:PEN2301Report Date:03/22/23

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2314139-04: The pH was greater than two; however, the sample was analyzed within the method required holding time.

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.

Selly Maurp Ashaley Moynihan

Authorized Signature:

Title: Technical Director/Representative

ALPHA

Date: 03/22/23

ORGANICS



VOLATILES



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

1 SHORE RD, GLENWOOD LANDING, NY

L2314139-01

MW-1

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 12:45

Lab Number:

Report Date:

Date Received: 03/17/23
Field Prep: Not Specified

Sample Location:
Sample Depth:

Lab ID:

Client ID:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/21/23 11:35

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - West	borough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1	
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1	
Chloroform	ND		ug/l	2.5	0.70	1	
Carbon tetrachloride	ND		ug/l	0.50	0.13	1	
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1	
Dibromochloromethane	ND		ug/l	0.50	0.15	1	
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1	
Tetrachloroethene	14		ug/l	0.50	0.18	1	
Chlorobenzene	ND		ug/l	2.5	0.70	1	
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1	
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1	
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1	
Bromodichloromethane	ND		ug/l	0.50	0.19	1	
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1	
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1	
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1	
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1	
Bromoform	ND		ug/l	2.0	0.65	1	
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1	
Benzene	ND		ug/l	0.50	0.16	1	
Toluene	ND		ug/l	2.5	0.70	1	
Ethylbenzene	ND		ug/l	2.5	0.70	1	
Chloromethane	ND		ug/l	2.5	0.70	1	
Bromomethane	ND		ug/l	2.5	0.70	1	
Vinyl chloride	ND		ug/l	1.0	0.07	1	
Chloroethane	ND		ug/l	2.5	0.70	1	
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1	
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1	



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: Date Collected: 03/16/23 12:45

Client ID: MW-1 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
Trichloroethene	0.20	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-01 Date Collected: 03/16/23 12:45

Client ID: MW-1 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	95	70-130	
Dibromofluoromethane	102	70-130	



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 07:55

Lab Number:

Report Date:

Lab ID: L2314139-02

Client ID: MW-2

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY

Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/21/23 11:59

Analyst: LAC

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



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-02 Date Collected: 03/16/23 07:55

Client ID: MW-2 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough	n Lab					
Trichloroethene	0.26	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	2.4	J	ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	0.90	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-02 Date Collected: 03/16/23 07:55

Client ID: MW-2 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westl	oorough Lab					
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	1.4	J	ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	93	70-130	
Dibromofluoromethane	102	70-130	



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

1 SHORE RD, GLENWOOD LANDING, NY

L2314139-03

MW-4

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 08:20

Date Received: 03/17/23

Lab Number:

Report Date:

Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 03/21/23 12:22

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborou	igh Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.40	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-03 Date Collected: 03/16/23 08:20

Client ID: MW-4 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Volatile Organics by GC/MS - Westborough Lab Trichioroethene	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,2-Dichlorobenzene ND Ug/l 2.5 0.70 1 1,3-Dichlorobenzene ND Ug/l 3.0 1.5 1 1 1 1 1 1 1 1 1	Volatile Organics by GC/MS - Westborou	ugh Lab					
1,2-Dichlorobenzene ND ug/l 2,5 0,70 1 1,3-Dichlorobenzene ND ug/l 2,5 0,70 1 1,4-Dichlorobenzene ND ug/l 2,5 0,70 1 Methy Iter Luyl ether ND ug/l 2,5 0,70 1 o-Xylene ND ug/l 2,5 0,70 1 o-Xylene ND ug/l 2,5 0,70 1 st-1,2-Dichlorethene ND ug/l 2,5 0,70 1 st-1,2-Dichlorethene, Total ND ug/l 2,5 0,70 1 1,2-Dichlorethene, Total ND ug/l 2,5	Trichloroethene	ND		ug/l	0.50	0.18	1
1,3-Dichlorobenzene ND ugl 2.5 0.70 1 1,4-Dichlorobenzene ND ugl 2.5 0.70 1 Methyl tet buyl ether ND ugl 2.5 0.70 1 pmr. Xylene ND ugl 2.5 0.70 1 o-Xylene ND ugl 2.5 0.70 1 Xylenes, Total ND ugl 2.5 0.70 1 Xylenes, Total ND ugl 2.5 0.70 1 L2-Dichloroethene, Total ND ugl 2.5 0.70 1 1,2-Dichloroethene, Total ND ugl 5.0 1.0 1 1,2-Dichloroethene, Total ND ugl 5.0 1.5	1,2-Dichlorobenzene	ND			2.5	0.70	1
Methyl terib utyl ether ND ug/l 2.5 0.70 1 p/m-Xylene ND ug/l 2.5 0.70 1 c-Xylene ND ug/l 2.5 0.70 1 xylenes ND ug/l 2.5 0.70 1 dis-1,2-Dichloroethene ND ug/l 2.5 0.70 1 1,2-Dichloroethene, Total ND ug/l 2.5 0.70 1 1,2-Dichloroethene, Total ND ug/l 5.0 1.0 1 1,2-Brichloropropane ND ug/l 5.0 1.0 1 1,2-Brichloropropane ND ug/l 5.0 1.0 1 Styrene ND ug/l 5.0 1.0 1 Styrene ND ug/l 5.0 1.0 1 Styrene ND ug/l 5.0 1.0 1 Dichlorodifluoromethane ND ug/l 5.0 1.0 1	1,3-Dichlorobenzene	ND			2.5	0.70	1
p/m-Xylene ND ug/l 2.5 0.70 1 c-Xylene ND ug/l 2.5 0.70 1 Xylenes, Total ND ug/l 2.5 0.70 1 Xylenes, Total ND ug/l 2.5 0.70 1 cis-1,2-Dichloroethene, Total ND ug/l 5.0 0.70 1 L2-Dichloroethene, Total ND ug/l 5.0 0.70 1 1,2-Dichloroethene, Total ND ug/l 5.0 0.70 1 1,2-2-Bradome ND ug/l 5.0 0.70 1 Acetone ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone ND ug/l 5.0 1.0	1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
o-Xylene ND ug/l 2.5 0.70 1 Xylenes, Total ND ug/l 2.5 0.70 1 cis-1,2-Dichloroethene ND ug/l 2.5 0.70 1 1,2-Dichloroethene, Total ND ug/l 2.5 0.70 1 Dibromomethane ND ug/l 2.5 0.70 1 1,2,3-Trichloropropane ND ug/l 5.0 1.0 1 Acylonitrile ND ug/l 5.0 1.5 1 Styrene ND ug/l 5.0 1.0 1 Styrene ND ug/l 5.0 1.0 1 Acetone ND ug/l 5.0 1.0 1 Carbon disulfide ND ug/l 5.0 1.0 1 2-Butanone ND ug/l 5.0 1.0 1 Vinyl acetate ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone<	Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
Xylenes, Total	p/m-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene ND ug/l 2.5 0.70 1 1,2-Dichloroethene, Total ND ug/l 2.5 0.70 1 Dibromomethane ND ug/l 5.0 1.0 1 1,2,3-Trichloropropane ND ug/l 2.5 0.70 1 Actylonitrile ND ug/l 5.0 1.5 1 Styrene ND ug/l 5.0 7.0 1 Acetone ND ug/l 5.0 1.0 1 Acetone ND ug/l 5.0 1.5 1 Carbon disulfide ND ug/l 5.0 1.0 1 2-Butanone ND ug/l 5.0 1.9 1 2-Butanone ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone ND ug/l 5.0 1.0 1 4-Hexanone ND ug/l 2.5 0.70 1 Bromochlorometha	o-Xylene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total ND ug/l 2.5 0.70 1 Dibromomethane ND ug/l 2.5 0.70 1 1,2,3-Trichloropropane ND ug/l 2.5 0.70 1 1,2,3-Trichloropropane ND ug/l 2.5 0.70 1 Styrene ND ug/l 2.5 0.70 1 Styrene ND ug/l 2.5 0.70 1 Dichlorodiffluoromethane ND ug/l 5.0 1.5 1 Dichlorodiffluoromethane ND ug/l 5.0 1.0 1 Carbon disulfide ND ug/l 5.0 1.5 1 Carbon disulfide ND ug/l 5.0 1.0 1 2-Butanone ND ug/l 5.0 1.0 1 2-Butanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 5.0 1.0 1 2-Dibromoethane ND ug/l 5.0 1.0 1 2-Dibromoethane ND ug/l 2.5 0.70 1 1,2-Dibromoethane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 1,1-Butylbenzene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropopane ND ug/l 2.5 0.70 1	Xylenes, Total	ND		ug/l	2.5	0.70	1
Dibromomethane ND ug/l 5.0 1.0 1 1,2,3-Trichloropropane ND ug/l 2.5 0.70 1 Acrylonitrile ND ug/l 5.0 1.5 1 Styrene ND ug/l 5.0 1.5 1 Dichlorodifluoromethane ND ug/l 5.0 1.0 1 Acetone ND ug/l 5.0 1.5 1 Carbon disulfide ND ug/l 5.0 1.0 1 Carbon disulfide ND ug/l 5.0 1.0 1 Vinyl acetate ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone ND ug/l 5.0 1.0 1 4-Hexanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 2.5 0.70 1 Bromochloromethane ND ug/l 2.5 0.70 1 1,3-Dichlor	cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2,3-Trichloropropane ND	1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Acrylonitrile ND ug/l 5.0 1.5 1 Styrene ND ug/l 2.5 0.70 1 Dichlorodifluoromethane ND ug/l 5.0 1.0 1 Acetone ND ug/l 5.0 1.5 1 Carbon disulfide ND ug/l 5.0 1.0 1 2-Butanone ND ug/l 5.0 1.0 1 Yinyl acetate ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone ND ug/l 5.0 1.0 1 4-Hethyl-2-pentanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 5.0 1.0 1 Bromochloromethane ND ug/l 2.5 0.70 1 2,2-Dichloropropane ND ug/l 2.5 0.70 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,	Dibromomethane	ND		ug/l	5.0	1.0	1
Styrene ND ug/l 2.5 0.70 1 Dichlorodifluoromethane ND ug/l 5.0 1.0 1 Acetone ND ug/l 5.0 1.5 1 Carbon disulfide ND ug/l 5.0 1.0 1 2-Butanone ND ug/l 5.0 1.9 1 Vinyl acetate ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 2.5 0.70 1 2-Hexanone ND ug/l 2.5 0.70 1 2-Hexanone ND ug/l 2.5 0.70 1 2-Enchloropropane ND ug/l 2.5 0.70 1 2,2-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane	1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane ND ug/l 5.0 1.0 1 Acetone ND ug/l 5.0 1.5 1 Carbon disulfide ND ug/l 5.0 1.0 1 2-Butanone ND ug/l 5.0 1.9 1 Vinyl acetate ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 5.0 1.0 1 1-Hexanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 5.0 1.0 1 Bromobel ne ND ug/l 2.5 0.70 1 1,2-Dibromoethane ND ug/l 2.5 0.70 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromoben	Acrylonitrile	ND		ug/l	5.0	1.5	1
Acetone ND ug/l 5.0 1.5 1 Carbon disulfide ND ug/l 5.0 1.0 1 2-Butanone ND ug/l 5.0 1.9 1 Vinyl acetate ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 5.0 1.0 1 Bromochloromethane ND ug/l 2.5 0.70 1 2,2-Dichloropropane ND ug/l 2.5 0.70 1 1,2-Dibromoethane ND ug/l 2.5 0.70 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1	Styrene	ND		ug/l	2.5	0.70	1
Carbon disulfide ND ug/l 5.0 1.0 1 2-Butanone ND ug/l 5.0 1.9 1 Vinyl acetate ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 5.0 1.0 1 Bromochloromethane ND ug/l 2.5 0.70 1 2,2-Dichloropropane ND ug/l 2.5 0.70 1 1,2-Dibromoethane ND ug/l 2.5 0.70 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromochezene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1 ec-Butylbenzene ND ug/l 2.5 0.70 1	Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
ND	Acetone	ND		ug/l	5.0	1.5	1
Vinyl acetate ND ug/l 5.0 1.0 1 4-Methyl-2-pentanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 5.0 1.0 1 Bromochloromethane ND ug/l 2.5 0.70 1 2,2-Dichloropropane ND ug/l 2.5 0.70 1 1,2-Dibromoethane ND ug/l 2.5 0.70 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1 sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 <td>Carbon disulfide</td> <td>ND</td> <td></td> <td>ug/l</td> <td>5.0</td> <td>1.0</td> <td>1</td>	Carbon disulfide	ND		ug/l	5.0	1.0	1
A-Methyl-2-pentanone ND ug/l 5.0 1.0 1 2-Hexanone ND ug/l 5.0 1.0 1 Bromochloromethane ND ug/l 2.5 0.70 1 2,2-Dichloropropane ND ug/l 2.5 0.70 1 1,2-Dibromoethane ND ug/l 2.5 0.70 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 1-Dichloropropane ND ug/l 2.5 0.70 1 1-Dichloroethane ND ug/l 2.5 0.70 1	2-Butanone	ND		ug/l	5.0	1.9	1
2-Hexanone ND ug/l 5.0 1.0 1 Bromochloromethane ND ug/l 2.5 0.70 1 2,2-Dichloropropane ND ug/l 2.5 0.70 1 1,2-Dibromoethane ND ug/l 2.5 0.70 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1 sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 https://doi.org/10.0000/dichloropropane ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 https://doi.org/10.0000/dichloropropane ND ug/l 2.5 0.70 1 https://doi.org/10.0000/dichloropropane ND ug/l 2.5 0.70 1 https://doi.org/10.0000/dichloropropane ND ug/l 2.5 0.70 1	Vinyl acetate	ND		ug/l	5.0	1.0	1
Bromochloromethane ND ug/l 2.5 0.70 1 2,2-Dichloropropane ND ug/l 2.5 0.70 1 1,2-Dibromoethane ND ug/l 2.0 0.65 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1 sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70	4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2,2-Dichloropropane ND ug/l 2.5 0.70 1 1,2-Dibromoethane ND ug/l 2.0 0.65 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1 sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane ND ug/l 2.0 0.65 1 1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1 sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	Bromochloromethane	ND		ug/l	2.5	0.70	1
1,3-Dichloropropane ND ug/l 2.5 0.70 1 1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1 sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane ND ug/l 2.5 0.70 1 Bromobenzene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1 sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
Bromobenzene ND ug/l 2.5 0.70 1 n-Butylbenzene ND ug/l 2.5 0.70 1 sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
n-Butylbenzene ND ug/l 2.5 0.70 1 sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
sec-Butylbenzene ND ug/l 2.5 0.70 1 tert-Butylbenzene ND ug/l 2.5 0.70 1 o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	Bromobenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene ND ug/l 2.5 0.70 1 o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	n-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene ND ug/l 2.5 0.70 1 p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	sec-Butylbenzene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane ND ug/l 2.5 0.70 1 Hexachlorobutadiene ND ug/l 2.5 0.70 1	o-Chlorotoluene	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene ND ug/l 2.5 0.70 1	p-Chlorotoluene	ND		ug/l	2.5	0.70	1
· · · · · · · · · · · · · · · · · · ·	1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene ND ug/l 2.5 0.70 1	Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
	Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene ND ug/l 2.5 0.70 1	p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene ND ug/l 2.5 0.70 1	Naphthalene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-03 Date Collected: 03/16/23 08:20

Client ID: MW-4 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	93	70-130	
Dibromofluoromethane	102	70-130	



L2314139

03/22/23

Not Specified

Project Name: FORMER PENETREX PROCESSING

1 SHORE RD, GLENWOOD LANDING, NY

L2314139-04

MW-5

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 08:50

Date Received: 03/17/23

Field Prep:

Lab Number:

Report Date:

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 03/21/23 12:45

Analyst: LAC

		Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboroug	h Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	4.2		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-04 Date Collected: 03/16/23 08:50

Client ID: MW-5 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Methyl tert butyl ether p/m-Xylene o-Xylene Xylenes, Total	0.60 ND ND ND ND ND ND ND ND	ug/l ug/l ug/l ug/l	0.50 2.5 2.5	0.18 0.70 0.70	1
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Methyl tert butyl ether p/m-Xylene o-Xylene Xylenes, Total cis-1,2-Dichloroethene 1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	ND ND ND ND ND	ug/l ug/l	2.5	0.70	
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Methyl tert butyl ether p/m-Xylene o-Xylene Xylenes, Total cis-1,2-Dichloroethene 1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	ND ND ND ND ND	ug/l ug/l	2.5	0.70	
1,3-Dichlorobenzene 1,4-Dichlorobenzene Methyl tert butyl ether p/m-Xylene o-Xylene Xylenes, Total cis-1,2-Dichloroethene 1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	ND ND ND	ug/l			
1,4-Dichlorobenzene Methyl tert butyl ether p/m-Xylene o-Xylene Xylenes, Total cis-1,2-Dichloroethene 1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	ND ND ND				1
Methyl tert butyl ether p/m-Xylene o-Xylene Xylenes, Total cis-1,2-Dichloroethene 1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	ND ND	ug/i	2.5	0.70	 1
p/m-Xylene o-Xylene Xylenes, Total cis-1,2-Dichloroethene 1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	ND	ug/l	2.5	0.70	 1
o-Xylene Xylenes, Total cis-1,2-Dichloroethene 1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene		ug/l	2.5	0.70	1
Xylenes, Total cis-1,2-Dichloroethene 1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	IND	ug/l	2.5	0.70	 1
cis-1,2-Dichloroethene 1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	ND	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	ND	ug/l	2.5	0.70	1
Dibromomethane 1,2,3-Trichloropropane Acrylonitrile Styrene	ND	ug/l	2.5	0.70	1
1,2,3-Trichloropropane Acrylonitrile Styrene	ND	ug/l	5.0	1.0	1
Acrylonitrile Styrene	ND	ug/l	2.5	0.70	1
Styrene	ND	ug/l	5.0	1.5	1
Dichlorodifluoromethane	ND	ug/l	2.5	0.70	1
	ND	ug/l	5.0	1.0	1
Acetone	ND	ug/l	5.0	1.5	1
Carbon disulfide	ND	ug/l	5.0	1.0	1
2-Butanone	ND	ug/l	5.0	1.9	1
Vinyl acetate	ND	ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND	ug/l	5.0	1.0	1
2-Hexanone	ND	ug/l	5.0	1.0	1
Bromochloromethane	ND	ug/l	2.5	0.70	1
2,2-Dichloropropane	ND	ug/l	2.5	0.70	1
1,2-Dibromoethane	ND	ug/l	2.0	0.65	1
1,3-Dichloropropane	ND	ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5	0.70	1
Bromobenzene	ND	ug/l	2.5	0.70	1
n-Butylbenzene	ND	ug/l	2.5	0.70	1
sec-Butylbenzene	ND	ug/l	2.5	0.70	1
tert-Butylbenzene	ND	ug/l	2.5	0.70	1
o-Chlorotoluene	ND	ug/l	2.5	0.70	1
p-Chlorotoluene	ND	ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5	0.70	1
Hexachlorobutadiene	ND	ug/l	2.5	0.70	1
Isopropylbenzene	ND	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		_		
Naphthalene		ug/l	2.5	0.70	1



Project Name: Lab Number: FORMER PENETREX PROCESSING L2314139

Project Number: Report Date: PEN2301 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-04 Date Collected: 03/16/23 08:50

Client ID: Date Received: 03/17/23 MW-5

Field Prep: Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	95	70-130	
Dibromofluoromethane	104	70-130	



L2314139

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 11:00

Report Date: 03/22/23

Lab ID: L2314139-05

Client ID: MW-6

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY

Date Received: 03/17/23
Field Prep: Not Specified

Lab Number:

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/21/23 13:09

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.49	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-05 Date Collected: 03/16/23 11:00

Client ID: MW-6 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	stborough Lab					
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.4	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	1.4	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-05 Date Collected: 03/16/23 11:00

Client ID: MW-6 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	94	70-130	
Dibromofluoromethane	102	70-130	



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 12:20

Lab Number:

Report Date:

Lab ID: L2314139-06

Client ID: MW-7

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY

Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/21/23 13:32

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	50		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-06 Date Collected: 03/16/23 12:20

Client ID: MW-7 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wo	estborough Lab					
Trichloroethene	0.46	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-06 Date Collected: 03/16/23 12:20

Client ID: MW-7 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	94	70-130	
Dibromofluoromethane	101	70-130	



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 09:55

Lab Number:

Report Date:

Date Received: 03/17/23 Field Prep: Not Specified

Lab ID: L2314139-07

Client ID: MW-8

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 03/21/23 13:55

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboroug	h Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	2.8		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-07 Date Collected: 03/16/23 09:55

Client ID: MW-8 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-07 Date Collected: 03/16/23 09:55

Client ID: MW-8 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	94	70-130	
Dibromofluoromethane	103	70-130	



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 11:10

Lab Number:

Report Date:

Lab ID: L2314139-08

Client ID: Date Received: 03/17/23 MW-8D Field Prep: Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 03/21/23 14:19

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborou	gh Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	38		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-08 Date Collected: 03/16/23 11:10

Client ID: MW-8D Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - V	Vestborough Lab					
Trichloroethene	1.5		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	50		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	50		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-08 Date Collected: 03/16/23 11:10

Client ID: MW-8D Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	93	70-130	
Dibromofluoromethane	102	70-130	



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 09:15

Lab Number:

Report Date:

Lab ID: L2314139-09

Client ID: Date Received: 03/17/23 MW-9 Field Prep: Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 03/21/23 16:33

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westl	oorough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1	
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1	
Chloroform	ND		ug/l	2.5	0.70	1	
Carbon tetrachloride	ND		ug/l	0.50	0.13	1	
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1	
Dibromochloromethane	ND		ug/l	0.50	0.15	1	
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1	
Tetrachloroethene	130		ug/l	0.50	0.18	1	
Chlorobenzene	ND		ug/l	2.5	0.70	1	
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1	
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1	
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1	
Bromodichloromethane	ND		ug/l	0.50	0.19	1	
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1	
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1	
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1	
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1	
Bromoform	ND		ug/l	2.0	0.65	1	
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1	
Benzene	ND		ug/l	0.50	0.16	1	
Toluene	ND		ug/l	2.5	0.70	1	
Ethylbenzene	ND		ug/l	2.5	0.70	1	
Chloromethane	ND		ug/l	2.5	0.70	1	
Bromomethane	ND		ug/l	2.5	0.70	1	
Vinyl chloride	ND		ug/l	1.0	0.07	1	
Chloroethane	ND		ug/l	2.5	0.70	1	
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1	
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1	



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-09 Date Collected: 03/16/23 09:15

Client ID: MW-9 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough	n Lab					
Trichloroethene	7.0		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-09 Date Collected: 03/16/23 09:15

Client ID: MW-9 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	97	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	105	70-130	
Dibromofluoromethane	98	70-130	



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 09:35

Client ID: MW-9D

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY

L2314139-10

Date Received: 03/17/23
Field Prep: Not Specified

Lab Number:

Report Date:

Sample Depth:

Lab ID:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/21/23 14:42

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westbord	ough Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.36	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: Date Collected: 03/16/23 09:35

Client ID: MW-9D Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-10 Date Collected: 03/16/23 09:35

Client ID: MW-9D Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	93	70-130	
Dibromofluoromethane	103	70-130	



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

L2314139-11

MW-10

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 11:55

Lab Number:

Report Date:

Date Received: 03/17/23 Field Prep: 1 SHORE RD, GLENWOOD LANDING, NY Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 03/21/23 15:06

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborou	igh Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	9.3		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-11 Date Collected: 03/16/23 11:55

Client ID: MW-10 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough	n Lab					
Trichloroethene	0.22	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-11 Date Collected: 03/16/23 11:55

Client ID: MW-10 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	93	70-130	
Dibromofluoromethane	104	70-130	



L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 00:00

Lab Number:

Report Date:

L2314139-12

Client ID: Date Received: 03/17/23 DUP001 Field Prep: Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Not Specified

Sample Depth:

Lab ID:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 03/21/23 15:29

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - West	oorough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1	
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1	
Chloroform	ND		ug/l	2.5	0.70	1	
Carbon tetrachloride	ND		ug/l	0.50	0.13	1	
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1	
Dibromochloromethane	ND		ug/l	0.50	0.15	1	
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1	
Tetrachloroethene	0.34	J	ug/l	0.50	0.18	1	
Chlorobenzene	ND		ug/l	2.5	0.70	1	
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1	
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1	
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1	
Bromodichloromethane	ND		ug/l	0.50	0.19	1	
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1	
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1	
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1	
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1	
Bromoform	ND		ug/l	2.0	0.65	1	
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1	
Benzene	ND		ug/l	0.50	0.16	1	
Toluene	ND		ug/l	2.5	0.70	1	
Ethylbenzene	ND		ug/l	2.5	0.70	1	
Chloromethane	ND		ug/l	2.5	0.70	1	
Bromomethane	ND		ug/l	2.5	0.70	1	
Vinyl chloride	ND		ug/l	1.0	0.07	1	
Chloroethane	ND		ug/l	2.5	0.70	1	
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1	
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1	



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-12 Date Collected: 03/16/23 00:00

Client ID: DUP001 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-12 Date Collected: 03/16/23 00:00

Client ID: DUP001 Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	93	70-130	
Dibromofluoromethane	103	70-130	

L2314139

03/22/23

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

SAMPLE RESULTS

Date Collected: 03/16/23 00:00

Lab Number:

Report Date:

Lab ID: L2314139-13

Client ID: Date Received: 03/17/23 TRIP BLANK Field Prep: Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 03/21/23 15:53

Analyst: LAC

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



Project Name: FORMER PENETREX PROCESSING **Lab Number:** L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-13 Date Collected: 03/16/23 00:00

Client ID: TRIP BLANK Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - W	estborough Lab					
Triphloroethone	ND		//	0.50	0.10	4
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	<u> </u>
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
•				-		



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314139

Project Number: PEN2301 Report Date: 03/22/23

SAMPLE RESULTS

Lab ID: L2314139-13 Date Collected: 03/16/23 00:00

Client ID: TRIP BLANK Date Received: 03/17/23

Sample Location: 1 SHORE RD, GLENWOOD LANDING, NY Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	105		70-130	
Toluene-d8	98		70-130	
4-Bromofluorobenzene	92		70-130	
Dibromofluoromethane	104		70-130	



Project Number: PEN2301 Report Date: 03/22/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 03/21/23 08:30

arameter	Result	Qualifier Units	RL	MDL	
olatile Organics by GC/MS	- Westborough Lab	for sample(s):	01-08,10-13	Batch: WG1757204-	-5
Methylene chloride	ND	ug/l	2.5	0.70	
1,1-Dichloroethane	ND	ug/l	2.5	0.70	
Chloroform	ND	ug/l	2.5	0.70	
Carbon tetrachloride	ND	ug/l	0.50	0.13	
1,2-Dichloropropane	ND	ug/l	1.0	0.14	
Dibromochloromethane	ND	ug/l	0.50	0.15	
1,1,2-Trichloroethane	ND	ug/l	1.5	0.50	
Tetrachloroethene	ND	ug/l	0.50	0.18	
Chlorobenzene	ND	ug/l	2.5	0.70	
Trichlorofluoromethane	ND	ug/l	2.5	0.70	
1,2-Dichloroethane	ND	ug/l	0.50	0.13	
1,1,1-Trichloroethane	ND	ug/l	2.5	0.70	
Bromodichloromethane	ND	ug/l	0.50	0.19	
trans-1,3-Dichloropropene	ND	ug/l	0.50	0.16	
cis-1,3-Dichloropropene	ND	ug/l	0.50	0.14	
1,3-Dichloropropene, Total	ND	ug/l	0.50	0.14	
1,1-Dichloropropene	ND	ug/l	2.5	0.70	
Bromoform	ND	ug/l	2.0	0.65	
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	0.17	
Benzene	ND	ug/l	0.50	0.16	
Toluene	ND	ug/l	2.5	0.70	
Ethylbenzene	ND	ug/l	2.5	0.70	
Chloromethane	ND	ug/l	2.5	0.70	
Bromomethane	ND	ug/l	2.5	0.70	
Vinyl chloride	ND	ug/l	1.0	0.07	
Chloroethane	ND	ug/l	2.5	0.70	
1,1-Dichloroethene	ND	ug/l	0.50	0.17	
trans-1,2-Dichloroethene	ND	ug/l	2.5	0.70	
Trichloroethene	ND	ug/l	0.50	0.18	



Project Number: PEN2301 Report Date: 03/22/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 03/21/23 08:30

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS -	Westborough Lab	for sample(s):	01-08,10-13	Batch: WG1757204-5
1,2-Dichlorobenzene	ND	ug/l	2.5	0.70
1,3-Dichlorobenzene	ND	ug/l	2.5	0.70
1,4-Dichlorobenzene	ND	ug/l	2.5	0.70
Methyl tert butyl ether	ND	ug/l	2.5	0.70
p/m-Xylene	ND	ug/l	2.5	0.70
o-Xylene	ND	ug/l	2.5	0.70
Xylenes, Total	ND	ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND	ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND	ug/l	2.5	0.70
Dibromomethane	ND	ug/l	5.0	1.0
1,2,3-Trichloropropane	ND	ug/l	2.5	0.70
Acrylonitrile	ND	ug/l	5.0	1.5
Styrene	ND	ug/l	2.5	0.70
Dichlorodifluoromethane	ND	ug/l	5.0	1.0
Acetone	ND	ug/l	5.0	1.5
Carbon disulfide	ND	ug/l	5.0	1.0
2-Butanone	ND	ug/l	5.0	1.9
Vinyl acetate	ND	ug/l	5.0	1.0
4-Methyl-2-pentanone	ND	ug/l	5.0	1.0
2-Hexanone	ND	ug/l	5.0	1.0
Bromochloromethane	ND	ug/l	2.5	0.70
2,2-Dichloropropane	ND	ug/l	2.5	0.70
1,2-Dibromoethane	ND	ug/l	2.0	0.65
1,3-Dichloropropane	ND	ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5	0.70
Bromobenzene	ND	ug/l	2.5	0.70
n-Butylbenzene	ND	ug/l	2.5	0.70
sec-Butylbenzene	ND	ug/l	2.5	0.70
tert-Butylbenzene	ND	ug/l	2.5	0.70



Project Number: PEN2301 Report Date: 03/22/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 03/21/23 08:30

Parameter	Result	Qualifier Units	RL	MDL	
Volatile Organics by GC/MS	- Westborough Lab	for sample(s):	01-08,10-13	Batch: WG1757204-5	
o-Chlorotoluene	ND	ug/l	2.5	0.70	
p-Chlorotoluene	ND	ug/l	2.5	0.70	
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5	0.70	
Hexachlorobutadiene	ND	ug/l	2.5	0.70	
Isopropylbenzene	ND	ug/l	2.5	0.70	
p-Isopropyltoluene	ND	ug/l	2.5	0.70	
Naphthalene	ND	ug/l	2.5	0.70	
n-Propylbenzene	ND	ug/l	2.5	0.70	
1,2,3-Trichlorobenzene	ND	ug/l	2.5	0.70	
1,2,4-Trichlorobenzene	ND	ug/l	2.5	0.70	
1,3,5-Trimethylbenzene	ND	ug/l	2.5	0.70	
1,2,4-Trimethylbenzene	ND	ug/l	2.5	0.70	
1,4-Dioxane	ND	ug/l	250	61.	
p-Diethylbenzene	ND	ug/l	2.0	0.70	
p-Ethyltoluene	ND	ug/l	2.0	0.70	
1,2,4,5-Tetramethylbenzene	ND	ug/l	2.0	0.54	
Ethyl ether	ND	ug/l	2.5	0.70	
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5	0.70	

		Acceptance
Surrogate	%Recovery Qualif	•
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130
Dibromofluoromethane	102	70-130



Project Number: PEN2301 Report Date: 03/22/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 03/21/23 08:36

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS	- Westborough Lab	for sample(s):	09 Batch:	WG1757267-5
Methylene chloride	ND	ug/l	2.5	0.70
1,1-Dichloroethane	ND	ug/l	2.5	0.70
Chloroform	ND	ug/l	2.5	0.70
Carbon tetrachloride	ND	ug/l	0.50	0.13
1,2-Dichloropropane	ND	ug/l	1.0	0.14
Dibromochloromethane	ND	ug/l	0.50	0.15
1,1,2-Trichloroethane	ND	ug/l	1.5	0.50
Tetrachloroethene	ND	ug/l	0.50	0.18
Chlorobenzene	ND	ug/l	2.5	0.70
Trichlorofluoromethane	ND	ug/l	2.5	0.70
1,2-Dichloroethane	ND	ug/l	0.50	0.13
1,1,1-Trichloroethane	ND	ug/l	2.5	0.70
Bromodichloromethane	ND	ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND	ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND	ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND	ug/l	0.50	0.14
1,1-Dichloropropene	ND	ug/l	2.5	0.70
Bromoform	ND	ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	0.17
Benzene	ND	ug/l	0.50	0.16
Toluene	ND	ug/l	2.5	0.70
Ethylbenzene	ND	ug/l	2.5	0.70
Chloromethane	ND	ug/l	2.5	0.70
Bromomethane	ND	ug/l	2.5	0.70
Vinyl chloride	ND	ug/l	1.0	0.07
Chloroethane	ND	ug/l	2.5	0.70
1,1-Dichloroethene	ND	ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND	ug/l	2.5	0.70
Trichloroethene	ND	ug/l	0.50	0.18



Project Number: PEN2301 Report Date: 03/22/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 03/21/23 08:36

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS	- Westborough Lab	for sample(s):	09 Batch:	WG1757267-5
1,2-Dichlorobenzene	ND	ug/l	2.5	0.70
1,3-Dichlorobenzene	ND	ug/l	2.5	0.70
1,4-Dichlorobenzene	ND	ug/l	2.5	0.70
Methyl tert butyl ether	ND	ug/l	2.5	0.70
p/m-Xylene	ND	ug/l	2.5	0.70
o-Xylene	ND	ug/l	2.5	0.70
Xylenes, Total	ND	ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND	ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND	ug/l	2.5	0.70
Dibromomethane	ND	ug/l	5.0	1.0
1,2,3-Trichloropropane	ND	ug/l	2.5	0.70
Acrylonitrile	ND	ug/l	5.0	1.5
Styrene	ND	ug/l	2.5	0.70
Dichlorodifluoromethane	ND	ug/l	5.0	1.0
Acetone	ND	ug/l	5.0	1.5
Carbon disulfide	ND	ug/l	5.0	1.0
2-Butanone	ND	ug/l	5.0	1.9
Vinyl acetate	ND	ug/l	5.0	1.0
4-Methyl-2-pentanone	ND	ug/l	5.0	1.0
2-Hexanone	ND	ug/l	5.0	1.0
Bromochloromethane	ND	ug/l	2.5	0.70
2,2-Dichloropropane	ND	ug/l	2.5	0.70
1,2-Dibromoethane	ND	ug/l	2.0	0.65
1,3-Dichloropropane	ND	ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5	0.70
Bromobenzene	ND	ug/l	2.5	0.70
n-Butylbenzene	ND	ug/l	2.5	0.70
sec-Butylbenzene	ND	ug/l	2.5	0.70
tert-Butylbenzene	ND	ug/l	2.5	0.70



Project Number: PEN2301 Report Date: 03/22/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 03/21/23 08:36

Parameter	Result C	Qualifier Units	RL	MDL
Volatile Organics by GC/MS - W	estborough Lab fo	or sample(s): 09	Batch:	WG1757267-5
o-Chlorotoluene	ND	ug/l	2.5	0.70
p-Chlorotoluene	ND	ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5	0.70
Hexachlorobutadiene	ND	ug/l	2.5	0.70
Isopropylbenzene	ND	ug/l	2.5	0.70
p-Isopropyltoluene	ND	ug/l	2.5	0.70
Naphthalene	ND	ug/l	2.5	0.70
n-Propylbenzene	ND	ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND	ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND	ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND	ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND	ug/l	2.5	0.70
1,4-Dioxane	ND	ug/l	250	61.
p-Diethylbenzene	ND	ug/l	2.0	0.70
p-Ethyltoluene	ND	ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND	ug/l	2.0	0.54
Ethyl ether	ND	ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5	0.70

	Acceptance
%Recovery Qua	Ilifier Criteria
102	70-130
103	70-130
105	70-130
101	70-130
	102 103 105



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number: L2314139

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits
olatile Organics by GC/MS - Westbord	ough Lab Associated	sample(s):	01-08,10-13 Bate	ch: WG17	57204-3 WG1757	204-4	
Methylene chloride	100		100		70-130	0	20
1,1-Dichloroethane	100		100		70-130	0	20
Chloroform	95		95		70-130	0	20
Carbon tetrachloride	96		94		63-132	2	20
1,2-Dichloropropane	100		100		70-130	0	20
Dibromochloromethane	80		82		63-130	2	20
1,1,2-Trichloroethane	88		90		70-130	2	20
Tetrachloroethene	110		100		70-130	10	20
Chlorobenzene	98		99		75-130	1	20
Trichlorofluoromethane	110		100		62-150	10	20
1,2-Dichloroethane	93		92		70-130	1	20
1,1,1-Trichloroethane	99		98		67-130	1	20
Bromodichloromethane	86		83		67-130	4	20
trans-1,3-Dichloropropene	83		83		70-130	0	20
cis-1,3-Dichloropropene	88		87		70-130	1	20
1,1-Dichloropropene	100		100		70-130	0	20
Bromoform	76		77		54-136	1	20
1,1,2,2-Tetrachloroethane	85		86		67-130	1	20
Benzene	100		98		70-130	2	20
Toluene	99		100		70-130	1	20
Ethylbenzene	100		100		70-130	0	20
Chloromethane	91		90		64-130	1	20
Bromomethane	79		74		39-139	7	20



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number: L2314139

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS - Westborough I	Lab Associated	sample(s):	01-08,10-13 Bat	ch: WG17	57204-3 WG1757	204-4	
Vinyl chloride	110		110		55-140	0	20
Chloroethane	120		110		55-138	9	20
1,1-Dichloroethene	110		110		61-145	0	20
trans-1,2-Dichloroethene	100		100		70-130	0	20
Trichloroethene	100		99		70-130	1	20
1,2-Dichlorobenzene	97		97		70-130	0	20
1,3-Dichlorobenzene	99		99		70-130	0	20
1,4-Dichlorobenzene	98		98		70-130	0	20
Methyl tert butyl ether	85		86		63-130	1	20
p/m-Xylene	100		100		70-130	0	20
o-Xylene	100		100		70-130	0	20
cis-1,2-Dichloroethene	100		100		70-130	0	20
Dibromomethane	88		88		70-130	0	20
1,2,3-Trichloropropane	91		89		64-130	2	20
Acrylonitrile	97		97		70-130	0	20
Styrene	100		100		70-130	0	20
Dichlorodifluoromethane	76		74		36-147	3	20
Acetone	73		77		58-148	5	20
Carbon disulfide	100		100		51-130	0	20
2-Butanone	73		78		63-138	7	20
Vinyl acetate	89		88		70-130	1	20
4-Methyl-2-pentanone	84		85		59-130	1	20
2-Hexanone	74		76		57-130	3	20



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number: L2314139

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits
olatile Organics by GC/MS - Westboroug	h Lab Associated	sample(s):	01-08,10-13 Bate	ch: WG175	7204-3 WG1757	204-4	
Bromochloromethane	99		98		70-130	1	20
2,2-Dichloropropane	97		93		63-133	4	20
1,2-Dibromoethane	85		86		70-130	1	20
1,3-Dichloropropane	90		90		70-130	0	20
1,1,1,2-Tetrachloroethane	88		88		64-130	0	20
Bromobenzene	98		98		70-130	0	20
n-Butylbenzene	99		99		53-136	0	20
sec-Butylbenzene	100		100		70-130	0	20
tert-Butylbenzene	100		99		70-130	1	20
o-Chlorotoluene	100		110		70-130	10	20
p-Chlorotoluene	99		98		70-130	1	20
1,2-Dibromo-3-chloropropane	71		74		41-144	4	20
Hexachlorobutadiene	100		100		63-130	0	20
Isopropylbenzene	100		100		70-130	0	20
p-Isopropyltoluene	100		100		70-130	0	20
Naphthalene	81		85		70-130	5	20
n-Propylbenzene	100		100		69-130	0	20
1,2,3-Trichlorobenzene	88		90		70-130	2	20
1,2,4-Trichlorobenzene	91		93		70-130	2	20
1,3,5-Trimethylbenzene	100		99		64-130	1	20
1,2,4-Trimethylbenzene	97		97		70-130	0	20
1,4-Dioxane	92		92		56-162	0	20
p-Diethylbenzene	96		95		70-130	1	20



Project Name: FORMER PENETREX PROCESSING

Lab Number: L2314139

Project Number: PEN2301

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborough L	ab Associated	sample(s):	01-08,10-13 Bate	ch: WG17	57204-3 WG1757	204-4			
p-Ethyltoluene	100		100		70-130	0		20	
1,2,4,5-Tetramethylbenzene	90		90		70-130	0		20	
Ethyl ether	95		92		59-134	3		20	
trans-1,4-Dichloro-2-butene	77		77		70-130	0		20	

	LCS	LCSD	Acceptance
Surrogate	%Recovery Qual	%Recovery Qual	Criteria
1,2-Dichloroethane-d4	99	99	70-130
Toluene-d8	101	103	70-130
4-Bromofluorobenzene	97	98	70-130
Dibromofluoromethane	100	100	70-130



L2314139

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Report Date: 03/22/23

Lab Number:

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits
olatile Organics by GC/MS - Westboro	ough Lab Associated	sample(s): 0	9 Batch: WG1	757267-3 W	G1757267-4		
Methylene chloride	91		92		70-130	1	20
1,1-Dichloroethane	92		92		70-130	0	20
Chloroform	94		95		70-130	1	20
Carbon tetrachloride	100		100		63-132	0	20
1,2-Dichloropropane	88		86		70-130	2	20
Dibromochloromethane	93		95		63-130	2	20
1,1,2-Trichloroethane	86		87		70-130	1	20
Tetrachloroethene	99		98		70-130	1	20
Chlorobenzene	97		95		75-130	2	20
Trichlorofluoromethane	110		100		62-150	10	20
1,2-Dichloroethane	92		93		70-130	1	20
1,1,1-Trichloroethane	100		100		67-130	0	20
Bromodichloromethane	92		94		67-130	2	20
trans-1,3-Dichloropropene	88		88		70-130	0	20
cis-1,3-Dichloropropene	90		88		70-130	2	20
1,1-Dichloropropene	98		99		70-130	1	20
Bromoform	82		82		54-136	0	20
1,1,2,2-Tetrachloroethane	88		91		67-130	3	20
Benzene	97		96		70-130	1	20
Toluene	95		93		70-130	2	20
Ethylbenzene	94		92		70-130	2	20
Chloromethane	82		79		64-130	4	20
Bromomethane	140	Q	130		39-139	7	20



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number: L2314139

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS - Westborough	Lab Associated	sample(s): 0	9 Batch: WG1	757267-3	WG1757267-4		
Vinyl chloride	99		98		55-140	1	20
Chloroethane	170	Q	160	Q	55-138	6	20
1,1-Dichloroethene	96		96		61-145	0	20
trans-1,2-Dichloroethene	96		95		70-130	1	20
Trichloroethene	90		92		70-130	2	20
1,2-Dichlorobenzene	100		99		70-130	1	20
1,3-Dichlorobenzene	99		99		70-130	0	20
1,4-Dichlorobenzene	99		98		70-130	1	20
Methyl tert butyl ether	87		89		63-130	2	20
p/m-Xylene	95		90		70-130	5	20
o-Xylene	90		90		70-130	0	20
cis-1,2-Dichloroethene	92		92		70-130	0	20
Dibromomethane	93		94		70-130	1	20
1,2,3-Trichloropropane	87		84		64-130	4	20
Acrylonitrile	76		73		70-130	4	20
Styrene	90		85		70-130	6	20
Dichlorodifluoromethane	94		90		36-147	4	20
Acetone	74		85		58-148	14	20
Carbon disulfide	94		92		51-130	2	20
2-Butanone	67		65		63-138	3	20
Vinyl acetate	85		84		70-130	1	20
4-Methyl-2-pentanone	68		70		59-130	3	20
2-Hexanone	67		72		57-130	7	20



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number: L2314139

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
platile Organics by GC/MS - Westborou	igh Lab Associated	sample(s):	09 Batch: WG1	757267-3	WG1757267-4			
Bromochloromethane	86		88		70-130	2		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	90		93		70-130	3		20
1,3-Dichloropropane	90		90		70-130	0		20
1,1,1,2-Tetrachloroethane	94		94		64-130	0		20
Bromobenzene	97		96		70-130	1		20
n-Butylbenzene	98		96		53-136	2		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	97		96		70-130	1		20
p-Chlorotoluene	98		95		70-130	3		20
1,2-Dibromo-3-chloropropane	85		91		41-144	7		20
Hexachlorobutadiene	84		82		63-130	2		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	78		81		70-130	4		20
n-Propylbenzene	98		97		69-130	1		20
1,2,3-Trichlorobenzene	80		80		70-130	0		20
1,2,4-Trichlorobenzene	85		81		70-130	5		20
1,3,5-Trimethylbenzene	96		95		64-130	1		20
1,2,4-Trimethylbenzene	94		93		70-130	1		20
1,4-Dioxane	94		94		56-162	0		20
p-Diethylbenzene	99		97		70-130	2		20



Project Name: FORMER PENETREX PROCESSING

1 ORMER 1 ENETREX 1 ROOLOG

Project Number: PEN2301

Lab Number:

L2314139

Report Date:

03/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborough L	ab Associated	sample(s): 09	9 Batch: Wo	G1757267-3	WG1757267-4				
p-Ethyltoluene	99		98		70-130	1	l	20	
1,2,4,5-Tetramethylbenzene	86		85		70-130	1		20	
Ethyl ether	81		90		59-134	11		20	
trans-1,4-Dichloro-2-butene	74		77		70-130	4		20	

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



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number:

L2314139

Report Date: 03/22/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS	- Westborough L	ab Asso	ciated sample(s): 09 QC Ba	tch ID: WG1757267-	6 WG175726	67-7 QC Sample: L	231413	9-09 Client ID: MW-9
Methylene chloride	ND	10	8.9	89	8.9	89	70-130	0	20
1,1-Dichloroethane	ND	10	8.7	87	8.8	88	70-130	1	20
Chloroform	ND	10	8.6	86	8.9	89	70-130	3	20
Carbon tetrachloride	ND	10	9.8	98	9.9	99	63-132	1	20
1,2-Dichloropropane	ND	10	8.6	86	8.6	86	70-130	0	20
Dibromochloromethane	ND	10	9.4	94	9.4	94	63-130	0	20
1,1,2-Trichloroethane	ND	10	8.8	88	8.7	87	70-130	1	20
Tetrachloroethene	130	10	140	100	140	100	70-130	0	20
Chlorobenzene	ND	10	9.0	90	9.2	92	75-130	2	20
Trichlorofluoromethane	ND	10	10	100	11	110	62-150	10	20
1,2-Dichloroethane	ND	10	9.0	90	8.8	88	70-130	2	20
1,1,1-Trichloroethane	ND	10	9.7	97	10	100	67-130	3	20
Bromodichloromethane	ND	10	9.0	90	8.8	88	67-130	2	20
trans-1,3-Dichloropropene	ND	10	8.1	81	8.1	81	70-130	0	20
cis-1,3-Dichloropropene	ND	10	8.2	82	8.2	82	70-130	0	20
1,1-Dichloropropene	ND	10	9.4	94	9.5	95	70-130	1	20
Bromoform	ND	10	8.3	83	8.3	83	54-136	0	20
1,1,2,2-Tetrachloroethane	ND	10	9.4	94	9.5	95	67-130	1	20
Benzene	ND	10	9.2	92	9.2	92	70-130	0	20
Toluene	ND	10	8.9	89	9.1	91	70-130	2	20
Ethylbenzene	ND	10	8.7	87	9.0	90	70-130	3	20
Chloromethane	ND	10	7.5	75	7.7	77	64-130	3	20
Bromomethane	ND	10	10	100	11	110	39-139	10	20
Vinyl chloride	ND	10	9.7	97	9.7	97	55-140	0	20

Project Name: FORMER PENETREX PROCESSING

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Parameter		MS dded	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS	- Westborough Lal	o Asso	ciated sample	(s): 09 QC Ba	tch ID: WG1757267-	6 WG175726	67-7 QC Sample: L2	2314139	0-09 Client ID: MW-9
Chloroethane	ND	10	12	120	11	110	55-138	9	20
1,1-Dichloroethene	ND	10	9.2	92	9.8	98	61-145	6	20
trans-1,2-Dichloroethene	ND	10	9.2	92	9.4	94	70-130	2	20
Trichloroethene	7.0	10	16	90	16	90	70-130	0	20
1,2-Dichlorobenzene	ND	10	9.6	96	9.8	98	70-130	2	20
1,3-Dichlorobenzene	ND	10	9.6	96	9.8	98	70-130	2	20
1,4-Dichlorobenzene	ND	10	9.7	97	9.7	97	70-130	0	20
Methyl tert butyl ether	ND	10	8.8	88	9.0	90	63-130	2	20
p/m-Xylene	ND	20	17	85	18	90	70-130	6	20
o-Xylene	ND	20	17	85	18	90	70-130	6	20
cis-1,2-Dichloroethene	ND	10	8.8	88	9.1	91	70-130	3	20
Dibromomethane	ND	10	9.3	93	9.2	92	70-130	1	20
1,2,3-Trichloropropane	ND	10	8.9	89	9.3	93	64-130	4	20
Acrylonitrile	ND	10	7.6	76	7.9	79	70-130	4	20
Styrene	ND	20	16	80	17	85	70-130	6	20
Dichlorodifluoromethane	ND	10	8.3	83	8.5	85	36-147	2	20
Acetone	ND	10	8.7	87	8.7	87	58-148	0	20
Carbon disulfide	ND	10	8.8	88	9.0	90	51-130	2	20
2-Butanone	ND	10	8.1	81	7.9	79	63-138	2	20
Vinyl acetate	ND	10	8.1	81	7.9	79	70-130	2	20
4-Methyl-2-pentanone	ND	10	7.7	77	8.0	80	59-130	4	20
2-Hexanone	ND	10	7.5	75	7.4	74	57-130	1	20
Bromochloromethane	ND	10	8.7	87	8.6	86	70-130	1	20
2,2-Dichloropropane	ND	10	7.7	77	7.8	78	63-133	1	20

Project Name: FORMER PENETREX PROCESSING

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L2314139

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Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPD Qua	RPD al Limits
Volatile Organics by GC/MS -	· Westborough L	_ab Asso	ciated sample(s	s): 09 QC Ba	tch ID: WG1757267-	6 WG175726	7-7 QC Sample: L	2314139-09	Client ID: MW-9
1,2-Dibromoethane	ND	10	9.3	93	9.2	92	70-130	1	20
1,3-Dichloropropane	ND	10	9.0	90	9.0	90	70-130	0	20
1,1,1,2-Tetrachloroethane	ND	10	9.0	90	9.3	93	64-130	3	20
Bromobenzene	ND	10	9.4	94	9.4	94	70-130	0	20
n-Butylbenzene	ND	10	8.9	89	9.2	92	53-136	3	20
sec-Butylbenzene	ND	10	9.5	95	10	100	70-130	5	20
tert-Butylbenzene	ND	10	9.6	96	10	100	70-130	4	20
o-Chlorotoluene	ND	10	9.2	92	9.2	92	70-130	0	20
p-Chlorotoluene	ND	10	9.2	92	9.3	93	70-130	1	20
1,2-Dibromo-3-chloropropane	ND	10	8.7	87	9.7	97	41-144	11	20
Hexachlorobutadiene	ND	10	7.9	79	8.3	83	63-130	5	20
Isopropylbenzene	ND	10	9.4	94	9.8	98	70-130	4	20
p-Isopropyltoluene	ND	10	9.3	93	9.7	97	70-130	4	20
Naphthalene	ND	10	8.6	86	8.6	86	70-130	0	20
n-Propylbenzene	ND	10	9.0	90	9.5	95	69-130	5	20
1,2,3-Trichlorobenzene	ND	10	8.6	86	8.7	87	70-130	1	20
1,2,4-Trichlorobenzene	ND	10	8.3	83	8.3	83	70-130	0	20
1,3,5-Trimethylbenzene	ND	10	8.8	88	9.3	93	64-130	6	20
1,2,4-Trimethylbenzene	ND	10	8.8	88	9.0	90	70-130	2	20
1,4-Dioxane	ND	500	550	110	560	112	56-162	2	20
p-Diethylbenzene	ND	10	9.0	90	9.4	94	70-130	4	20
p-Ethyltoluene	ND	10	9.2	92	9.6	96	70-130	4	20
1,2,4,5-Tetramethylbenzene	ND	10	8.0	80	8.1	81	70-130	1	20
Ethyl ether	ND	10	9.2	92	9.2	92	59-134	0	20

Project Name: FORMER PENETREX PROCESSING

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	Native	MS	MS	MS		MSD	MSD		Recovery	,	RPD
Parameter	Sample	Added	Found	%Recovery	Qual	Found	%Recovery	Qual	Limits	RPD	Qual Limits
Volatile Organics by GC/MS -	- Westborough I	Lab Associ	ated sample(s	s): 09 QC Bat	ch ID: W	VG1757267-	-6 WG175726	7-7 QC	Sample: L	_2314139	0-09 Client ID: MW
trans-1,4-Dichloro-2-butene	ND	10	6.1	61	Q	6.6	66	Q	70-130	8	20

	MS	MSD	Acceptance
Surrogate	% Recovery Qualifier	% Recovery Qualifier	Criteria
1,2-Dichloroethane-d4	103	101	70-130
4-Bromofluorobenzene	99	101	70-130
Dibromofluoromethane	96	99	70-130
Toluene-d8	101	102	70-130



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Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301 Report Date: 03/22/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Container Information

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2314139-01A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-01B	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-01C	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-02A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-02B	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-02C	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-03A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-03B	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-03C	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-04A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-04B	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-04C	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-05A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-05B	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-05C	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-06A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-06B	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-06C	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-07A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-07B	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-07C	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-08A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-08B	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)



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Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2314139-08C	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-09A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-09A1	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-09A2	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-09B	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-09B1	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-09B2	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-09C	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-09C1	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-09C2	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-10A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-10B	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-10C	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-11A	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-11B	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-11C	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-12A	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-12B	Vial HCI preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-12C	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-13A	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)
L2314139-13B	Vial HCl preserved	Α	NA		4.9	Υ	Absent		NYTCL-8260(14)



Project Name:FORMER PENETREX PROCESSINGLab Number:L2314139Project Number:PEN2301Report Date:03/22/23

GLOSSARY

Acronyms

EDL

LOD

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.)

Festimeted Detection Limit: This value represents the level to which terget analyte generations are

- 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.

 - 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:FORMER PENETREX PROCESSINGLab Number:L2314139Project Number:PEN2301Report Date:03/22/23

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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:FORMER PENETREX PROCESSINGLab Number:L2314139Project Number:PEN2301Report Date:03/22/23

Data Qualifiers

Identified Compounds (TICs).

- $\label{eq:main_eq} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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.
- 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



Serial_No:03222317:27

Project Name:FORMER PENETREX PROCESSINGLab Number:L2314139Project Number:PEN2301Report Date:03/22/23

REFERENCES

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.



Serial_No:03222317:27

Alpha Analytical, Inc.
Facility: Company-wide
Department: Quality Assurance

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873**

Published Date: 4/2/2021 1:14:23 PM

Page 1 of 1

Revision 19

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: lodomethane (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, SM4500CI-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 II, 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.

Document Type: Form

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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Westboro: Certification N Mansfield: Certification N			0.755	ntainer Type Preservative	Š				Please print clearly, leg and completely. Sample not be logged in and turnaround time clock v	les can will not
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Form No: 01-25 HC (rev. 30 age 72 of 72	-Sept-2013)	3		3/17/23		- 6	1		-	7/23 2350	(See reverse side)



ANALYTICAL REPORT

Lab Number: L2314229

Client: P. W. Grosser

630 Johnson Avenue

Suite 7

Bohemia, NY 11716

ATTN: Ryan Morley
Phone: (631) 589-6353

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301 Report Date: 03/30/23

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

Certifications & Approvals: MA (M-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: FORMER PENETREX PROCESSING

Lab Number: L2314229 Project Number: Report Date: 03/30/23 PEN2301

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2314229-01	IA001	AIR	1 SHORE RD GLENWOOD LANDING, NY	03/17/23 09:04	03/17/23
L2314229-02	IA002	AIR	1 SHORE RD GLENWOOD LANDING, NY	03/17/23 09:02	03/17/23
L2314229-03	IA003	AIR	1 SHORE RD GLENWOOD LANDING, NY	03/17/23 09:06	03/17/23
L2314229-04	IA004	AIR	1 SHORE RD GLENWOOD LANDING, NY	03/17/23 09:00	03/17/23
L2314229-05	IA005	AIR	1 SHORE RD GLENWOOD LANDING, NY	03/17/23 08:55	03/17/23
L2314229-06	SV005	SOIL_VAPOR	1 SHORE RD GLENWOOD LANDING, NY	03/17/23 08:57	03/17/23
L2314229-07	OA001	AIR	1 SHORE RD GLENWOOD LANDING, NY	03/17/23 09:08	03/17/23



Project Name:FORMER PENETREX PROCESSINGLab Number:L2314229Project Number:PEN2301Report Date:03/30/23

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.	



Serial_No:03302316:44

Project Name:FORMER PENETREX PROCESSINGLab Number:L2314229Project Number:PEN2301Report Date:03/30/23

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 13, 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:

Title: Technical Director/Representative Date: 03/30/23

Christopher J. Anderson

AIR



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: Date Collected: 03/17/23 09:04

Client ID: IA001 Date Received: 03/17/23

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY Field Prep: Not Specified

Sample Depth:

Matrix: Air

Anaytical Method: 48,TO-15 Analytical Date: 03/30/23 01:43

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mar	nsfield Lab							
Dichlorodifluoromethane	0.458	0.200		2.26	0.989			1
Chloromethane	0.569	0.200		1.18	0.413			1
Freon-114	ND	0.200		ND	1.40			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	5.14	5.00		9.69	9.42			1
Vinyl bromide	ND	0.200		ND	0.874			1
Acetone	1.96	1.00		4.66	2.38			1
Trichlorofluoromethane	0.200	0.200		1.12	1.12			1
Isopropanol	0.550	0.500		1.35	1.23			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
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



L2314229

Project Name: FORMER PENETREX PROCESSING Lab Number:

Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-01

Client ID: IA001

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:04

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfiel	ld Lab							
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	ND	0.200		ND	0.705			1
Benzene	ND	0.200		ND	0.639			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
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
1-Methyl-2-pentanone	ND	0.500		ND	2.05			1
rans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Toluene	0.245	0.200		0.923	0.754			1
2-Hexanone	ND	0.200		ND	0.820			1
Dibromochloromethane	ND	0.200		ND	1.70			1
,2-Dibromoethane	ND	0.200		ND	1.54			1
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	ND	0.200		ND	0.869			1
o/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
,1,2,2-Tetrachloroethane	ND	0.200		ND	1.37			1
o-Xylene	ND	0.200		ND	0.869			1
1-Ethyltoluene	ND	0.200		ND	0.983			1
,3,5-Trimethylbenzene	ND	0.200		ND	0.983			1



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-01

Client ID: IA001

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:04

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mar	nsfield Lab							
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	88		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: Date Collected: 03/17/23 09:04

Client ID: IA001 Date Received: 03/17/23

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM Analytical Date: 03/30/23 01:43

		ppbV		ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM - N	Mansfield Lab							
Vinyl chloride	ND	0.020		ND	0.051			1
1,1-Dichloroethene	ND	0.020		ND	0.079			1
cis-1,2-Dichloroethene	ND	0.020		ND	0.079			1
1,1,1-Trichloroethane	ND	0.020		ND	0.109			1
Carbon tetrachloride	0.071	0.020		0.447	0.126			1
Trichloroethene	ND	0.020		ND	0.107			1
Tetrachloroethene	0.147	0.020		0.997	0.136			1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140



L2314229

Project Name: FORMER PENETREX PROCESSING Lab Number:

Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: Date Collected: 03/17/23 09:02

Client ID: IA002 Date Received: 03/17/23

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY Field Prep: Not Specified

Sample Depth:

Matrix: Air

Anaytical Method: 48,TO-15 Analytical Date: 03/30/23 02:22

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mans	field Lab							
Dichlorodifluoromethane	0.488	0.200		2.41	0.989			1
Chloromethane	0.588	0.200		1.21	0.413			1
Freon-114	ND	0.200		ND	1.40			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	2.15	1.00		5.11	2.38			1
Trichlorofluoromethane	ND	0.200		ND	1.12			1
Isopropanol	0.519	0.500		1.28	1.23			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
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



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-02

Client ID: IA002

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:02

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfiel	d Lab							
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	ND	0.200		ND	0.705			1
Benzene	ND	0.200		ND	0.639			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
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
rans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Toluene	0.203	0.200		0.765	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
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	ND	0.200		ND	0.869			1
o/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



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-02

Client ID: IA002

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:02

Date Received: 03/17/23

Field Prep: Not Specified

ampio Dopan.									
		ppbV		ug/m3				Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor	
Volatile Organics in Air - Man	sfield Lab								
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	89		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-02

Client ID: IA002

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:02

Date Received: 03/17/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM Analytical Date: 03/30/23 02:22

ppbV		ug/m3				Dilution	
Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
nsfield Lab							
ND	0.020		ND	0.051			1
ND	0.020		ND	0.079			1
ND	0.020		ND	0.079			1
ND	0.020		ND	0.109			1
0.063	0.020		0.396	0.126			1
ND	0.020		ND	0.107			1
0.119	0.020		0.807	0.136			1
	ND 0.063	Results RL nsfield Lab ND 0.020 ND 0.020 0.020 ND 0.020	Results RL MDL nsfield Lab ND 0.020 ND 0.020 ND 0.020 ND 0.020 ND 0.020 ND 0.020	Results RL MDL Results ND 0.020 ND ND 0.020 ND ND 0.020 ND ND 0.020 ND 0.063 0.020 ND ND 0.020 ND	Results RL MDL Results RL ND 0.020 ND 0.051 ND 0.020 ND 0.079 ND 0.020 ND 0.079 ND 0.020 ND 0.109 0.063 0.020 ND 0.126 ND 0.020 ND 0.107	Results RL MDL Results RL MDL ND 0.020 ND 0.051 ND 0.020 ND 0.079 ND 0.020 ND 0.079 ND 0.020 ND 0.109 0.063 0.020 0.396 0.126 ND 0.020 ND 0.107	Results RL MDL Results RL MDL Qualifier ND 0.020 ND 0.051 ND 0.020 ND 0.079 ND 0.020 ND 0.079 ND 0.020 ND 0.109 0.063 0.020 ND 0.126 ND 0.020 ND 0.107

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-03 Date Collected: 03/17/23 09:06

Client ID: IA003 Date Received: 03/17/23

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15 Analytical Date: 03/30/23 03:01

ppbV			ug/m3				Dilution
Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
ld Lab							
0.463	0.200		2.29	0.989			1
0.580	0.200		1.20	0.413			1
ND	0.200		ND	1.40			1
ND	0.200		ND	0.442			1
ND	0.200		ND	0.777			1
ND	0.200		ND	0.528			1
141	5.00		266	9.42			1
ND	0.200		ND	0.874			1
15.8	1.00		37.5	2.38			1
0.210	0.200		1.18	1.12			1
2.05	0.500		5.04	1.23			1
ND	0.500		ND	1.52			1
ND	0.500		ND	1.74			1
ND	0.200		ND	0.626			1
ND	0.200		ND	0.623			1
ND	0.200		ND	1.53			1
ND	0.200		ND	0.793			1
ND	0.200		ND	0.809			1
ND	0.200		ND	0.721			1
1.36	0.500		4.01	1.47			1
ND	0.500		ND	1.80			1
ND	0.200		ND	0.977			1
0.759	0.500		2.24	1.47			1
	0.463 0.580 ND ND ND ND 141 ND 15.8 0.210 2.05 ND	Results RL Id Lab 0.463 0.200 ND 0.200 ND 0.200 ND 0.200 ND 0.200 ND 0.200 141 5.00 ND 0.200 15.8 1.00 0.210 0.200 ND 0.500 ND 0.500 ND 0.200 ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 0.500	Results RL MDL Id Lab 0.463 0.200 0.580 0.200 ND 0.200 ND 0.200 ND 0.200 141 5.00 ND 0.200 15.8 1.00 0.210 0.200 ND 0.500 ND 0.500 ND 0.200 ND 0.500 ND 0.500 ND 0.500 ND <t< td=""><td>Results RL MDL Results Id Lab 0.463 0.200 2.29 0.580 0.200 1.20 ND 0.200 ND ND 0.200 ND ND 0.200 ND ND 0.200 ND 141 5.00 266 ND 0.200 ND 15.8 1.00 37.5 0.210 0.200 ND ND 0.500 ND ND 0.500 ND ND 0.500 ND ND 0.200 ND ND 0.200</td><td>Results RL MDL Results RL Id Lab 0.463 0.200 2.29 0.989 0.580 0.200 1.20 0.413 ND 0.200 ND 1.40 ND 0.200 ND 0.442 ND 0.200 ND 0.777 ND 0.200 ND 0.528 141 5.00 266 9.42 ND 0.200 ND 0.874 15.8 1.00 37.5 2.38 0.210 0.200 1.18 1.12 2.05 0.500 5.04 1.23 ND 0.500 ND 1.52 ND 0.500 ND 0.626 ND 0.200 ND 0.623 ND 0.200 ND 0.793 <td>Results RL MDL Results RL MDL Id Lab 0.463 0.200 2.29 0.989 0.580 0.200 1.20 0.413 ND 0.200 ND 1.40 ND 0.200 ND 0.442 ND 0.200 ND 0.777 ND 0.200 ND 0.528 141 5.00 ND 0.874 ND 0.200 ND 0.874 15.8 1.00 37.5 2.38 0.210 0.200 1.18 1.12 2.05 0.500 5.04 1.23 ND 0.500 ND 1.52 ND 0.500 ND 0.626</td></td></t<> <td>Results RL MDL Results RL MDL Qualifier Id Lab Id Lab 0.463 0.200 2.29 0.989 0.580 0.200 1.20 0.413 ND 0.200 ND 0.442 ND 0.200 ND 0.777 ND 0.200 ND 0.528 ND 0.200 ND 0.528 ND 0.200 ND 0.874 ND 0.200 ND 0.874 15.8 1.00 37.5 2.38 0.210 0.200 ND 1.52 ND 0.500 ND 1.52 <</td>	Results RL MDL Results Id Lab 0.463 0.200 2.29 0.580 0.200 1.20 ND 0.200 ND ND 0.200 ND ND 0.200 ND ND 0.200 ND 141 5.00 266 ND 0.200 ND 15.8 1.00 37.5 0.210 0.200 ND ND 0.500 ND ND 0.500 ND ND 0.500 ND ND 0.200 ND ND 0.200	Results RL MDL Results RL Id Lab 0.463 0.200 2.29 0.989 0.580 0.200 1.20 0.413 ND 0.200 ND 1.40 ND 0.200 ND 0.442 ND 0.200 ND 0.777 ND 0.200 ND 0.528 141 5.00 266 9.42 ND 0.200 ND 0.874 15.8 1.00 37.5 2.38 0.210 0.200 1.18 1.12 2.05 0.500 5.04 1.23 ND 0.500 ND 1.52 ND 0.500 ND 0.626 ND 0.200 ND 0.623 ND 0.200 ND 0.793 <td>Results RL MDL Results RL MDL Id Lab 0.463 0.200 2.29 0.989 0.580 0.200 1.20 0.413 ND 0.200 ND 1.40 ND 0.200 ND 0.442 ND 0.200 ND 0.777 ND 0.200 ND 0.528 141 5.00 ND 0.874 ND 0.200 ND 0.874 15.8 1.00 37.5 2.38 0.210 0.200 1.18 1.12 2.05 0.500 5.04 1.23 ND 0.500 ND 1.52 ND 0.500 ND 0.626</td>	Results RL MDL Results RL MDL Id Lab 0.463 0.200 2.29 0.989 0.580 0.200 1.20 0.413 ND 0.200 ND 1.40 ND 0.200 ND 0.442 ND 0.200 ND 0.777 ND 0.200 ND 0.528 141 5.00 ND 0.874 ND 0.200 ND 0.874 15.8 1.00 37.5 2.38 0.210 0.200 1.18 1.12 2.05 0.500 5.04 1.23 ND 0.500 ND 1.52 ND 0.500 ND 0.626	Results RL MDL Results RL MDL Qualifier Id Lab Id Lab 0.463 0.200 2.29 0.989 0.580 0.200 1.20 0.413 ND 0.200 ND 0.442 ND 0.200 ND 0.777 ND 0.200 ND 0.528 ND 0.200 ND 0.528 ND 0.200 ND 0.874 ND 0.200 ND 0.874 15.8 1.00 37.5 2.38 0.210 0.200 ND 1.52 ND 0.500 ND 1.52 <



L2314229

Project Name: FORMER PENETREX PROCESSING Lab Number:

Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-03

Client ID: IA003

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:06

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfie	ld Lab							
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	0.236	0.200		0.832	0.705			1
Benzene	0.219	0.200		0.700	0.639			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
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
1-Methyl-2-pentanone	ND	0.500		ND	2.05			1
rans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Toluene	0.980	0.200		3.69	0.754			1
2-Hexanone	ND	0.200		ND	0.820			1
Dibromochloromethane	ND	0.200		ND	1.70			1
,2-Dibromoethane	ND	0.200		ND	1.54			1
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	ND	0.200		ND	0.869			1
o/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
,1,2,2-Tetrachloroethane	ND	0.200		ND	1.37			1
o-Xylene	ND	0.200		ND	0.869			1
1-Ethyltoluene	ND	0.200		ND	0.983			1
,3,5-Trimethylbenzene	ND	0.200		ND	0.983			1



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-03

Client ID: IA003

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:06

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Man	sfield Lab							
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	90		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-03

Client ID: IA003

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:06

Date Received: 03/17/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM Analytical Date: 03/30/23 03:01

		ppbV		ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM - Ma	nsfield Lab							
Vinyl chloride	ND	0.020		ND	0.051			1
1,1-Dichloroethene	ND	0.020		ND	0.079			1
cis-1,2-Dichloroethene	ND	0.020		ND	0.079			1
1,1,1-Trichloroethane	ND	0.020		ND	0.109			1
Carbon tetrachloride	0.075	0.020		0.472	0.126			1
Trichloroethene	ND	0.020		ND	0.107			1
Tetrachloroethene	0.153	0.020		1.04	0.136			1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	93		60-140



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: Date Collected: 03/17/23 09:00

Client ID: IA004 Date Received: 03/17/23

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15 Analytical Date: 03/30/23 03:40

		Vadqq			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Man	sfield Lab							
Dichlorodifluoromethane	0.478	0.200		2.36	0.989			1
Chloromethane	0.573	0.200		1.18	0.413			1
Freon-114	ND	0.200		ND	1.40			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	5.29	5.00		9.97	9.42			1
Vinyl bromide	ND	0.200		ND	0.874			1
Acetone	2.13	1.00		5.06	2.38			1
Trichlorofluoromethane	0.206	0.200		1.16	1.12			1
Isopropanol	ND	0.500		ND	1.23			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
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



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number:

L2314229

Report Date:

03/30/23

SAMPLE RESULTS

Lab ID: L2314229-04

Client ID: IA004

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:00

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfi	eld Lab							
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	ND	0.200		ND	0.705			1
Benzene	ND	0.200		ND	0.639			1
Cyclohexane	ND	0.200		ND	0.688			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
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
I-Methyl-2-pentanone	ND	0.500		ND	2.05			1
rans-1,3-Dichloropropene	ND	0.200		ND	0.908			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
,2-Dibromoethane	ND	0.200		ND	1.54			1
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	ND	0.200		ND	0.869			1
o/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
,1,2,2-Tetrachloroethane	ND	0.200		ND	1.37			1
o-Xylene	ND	0.200		ND	0.869			1
1-Ethyltoluene	ND	0.200		ND	0.983			1
,3,5-Trimethylbenzene	ND	0.200		ND	0.983			1



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-04

Client ID: IA004

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:00

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Man	sfield Lab							
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	88		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	91		60-140



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-04

Client ID: IA004

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:00

Date Received: 03/17/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM Analytical Date: 03/30/23 03:40

Parameter		ppbV		ug/m3				Dilution
	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM	l - Mansfield Lab							
Vinyl chloride	ND	0.020		ND	0.051			1
1,1-Dichloroethene	ND	0.020		ND	0.079			1
cis-1,2-Dichloroethene	ND	0.020		ND	0.079			1
1,1,1-Trichloroethane	ND	0.020		ND	0.109			1
Carbon tetrachloride	0.064	0.020		0.403	0.126			1
Trichloroethene	ND	0.020		ND	0.107			1
Tetrachloroethene	0.114	0.020		0.773	0.136			1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140



L2314229

03/17/23 08:55

Project Name: FORMER PENETREX PROCESSING Lab Number:

Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-05

Client ID: IA005

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Received: 03/17/23 Field Prep: Not Specified

Date Collected:

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15 Analytical Date: 03/30/23 04:20

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mar	nsfield Lab							
Dichlorodifluoromethane	0.454	0.200		2.24	0.989			1
Chloromethane	0.576	0.200		1.19	0.413			1
Freon-114	ND	0.200		ND	1.40			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	2.44	1.00		5.80	2.38			1
Trichlorofluoromethane	0.220	0.200		1.24	1.12			1
Isopropanol	0.526	0.500		1.29	1.23			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
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



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number:

L2314229

Report Date:

03/30/23

SAMPLE RESULTS

Lab ID: L2314229-05

Client ID: IA005

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected:

03/17/23 08:55

Date Received: Field Prep:

03/17/23 Not Specified

Затріе Беріп.	ppbV			ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfi	ield Lab							
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	ND	0.200		ND	0.705			1
Benzene	ND	0.200		ND	0.639			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
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
I-Methyl-2-pentanone	ND	0.500		ND	2.05			1
rans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Toluene	0.322	0.200		1.21	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
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	ND	0.200		ND	0.869			1
o/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
I-Ethyltoluene	ND	0.200		ND	0.983			1
,3,5-Trimethylbenzene	ND	0.200		ND	0.983			1



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-05

Client ID: IA005

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 08:55

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mar	nsfield Lab							
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	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-05

Client ID: IA005

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 08:55

Date Received: 03/17/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM Analytical Date: 03/30/23 04:20

Analyst: RAY

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM - N	Mansfield Lab							
Vinyl chloride	ND	0.020		ND	0.051			1
1,1-Dichloroethene	ND	0.020		ND	0.079			1
cis-1,2-Dichloroethene	ND	0.020		ND	0.079			1
1,1,1-Trichloroethane	ND	0.020		ND	0.109			1
Carbon tetrachloride	0.062	0.020		0.390	0.126			1
Trichloroethene	ND	0.020		ND	0.107			1
Tetrachloroethene	0.276	0.020		1.87	0.136			1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: Date Collected: 03/17/23 08:57

Client ID: SV005 Date Received: 03/17/23

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor Anaytical Method: 48,TO-15 Analytical Date: 03/30/23 05:38

Analyst: RAY

		ppbV		ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mar	nsfield Lab							
Dichlorodifluoromethane	0.457	0.200		2.26	0.989			1
Chloromethane	1.30	0.200		2.68	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	11.5	5.00		21.7	9.42			1
Vinyl bromide	ND	0.200		ND	0.874			1
Acetone	5.93	1.00		14.1	2.38			1
Trichlorofluoromethane	0.203	0.200		1.14	1.12			1
Isopropanol	16.0	0.500		39.3	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	8.64	0.500		25.5	1.47			1
cis-1,2-Dichloroethene	ND	0.200		ND	0.793			1



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number:

L2314229

Report Date:

03/30/23

SAMPLE RESULTS

Lab ID: L2314229-06

Client ID: SV005

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 08:57

Date Received: 03/17/23

Field Prep: Not Specified

Запріє Беріп.		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mans	sfield 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	0.389	0.200		1.37	0.705			1
1,1,1-Trichloroethane	ND	0.200		ND	1.09			1
Benzene	0.322	0.200		1.03	0.639			1
Carbon tetrachloride	ND	0.200		ND	1.26			1
Cyclohexane	ND	0.200		ND	0.688			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	0.292	0.200		1.20	0.820			1
cis-1,3-Dichloropropene	ND	0.200		ND	0.908			1
1-Methyl-2-pentanone	ND	0.500		ND	2.05			1
rans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
1,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Γoluene	10.3	0.200		38.8	0.754			1
2-Hexanone	1.09	0.200		4.47	0.820			1
Dibromochloromethane	ND	0.200		ND	1.70			1
1,2-Dibromoethane	ND	0.200		ND	1.54			1
Tetrachloroethene	0.251	0.200		1.70	1.36			1
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	0.362	0.200		1.57	0.869			1



Project Name: FORMER PENETREX PROCESSING Lab Number:

Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-06

Client ID: SV005

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 08:57

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mans	field Lab							
p/m-Xylene	1.46	0.400		6.34	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	0.477	0.200		2.07	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	93		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140



Project Name: FORMER PENETREX PROCESSING Lab Number:

Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: Date Collected: 03/17/23 09:08

Client ID: OA001 Date Received: 03/17/23

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15 Analytical Date: 03/30/23 01:04

Analyst: RAY

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Man	sfield Lab							
Dichlorodifluoromethane	0.493	0.200		2.44	0.989			1
Chloromethane	0.599	0.200		1.24	0.413			1
Freon-114	ND	0.200		ND	1.40			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	1.79	1.00		4.25	2.38			1
Trichlorofluoromethane	0.203	0.200		1.14	1.12			1
sopropanol	1.31	0.500		3.22	1.23			1
Fertiary 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
rans-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
Ethyl Acetate	ND	0.500		ND	1.80			1
Chloroform	ND	0.200		ND	0.977			1
Tetrahydrofuran	0.501	0.500		1.48	1.47			1



Project Name: FORMER PENETREX PROCESSING Lab Number:

Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-07

Client ID: OA001

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:08

Date Received: 03/17/23

Field Prep: Not Specified

Затріе Беріп.		ppbV		ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mans	field Lab							
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	0.426	0.200		1.50	0.705			1
Benzene	0.257	0.200		0.821	0.639			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
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
1-Methyl-2-pentanone	ND	0.500		ND	2.05			1
rans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
1,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Toluene	0.421	0.200		1.59	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
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	ND	0.200		ND	0.869			1
o/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
1-Ethyltoluene	ND	0.200		ND	0.983			1
,3,5-Trimethylbenzene	ND	0.200		ND	0.983			1



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-07

Client ID: OA001

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:08

Date Received: 03/17/23

Field Prep: Not Specified

		ppbV		ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansf	ield Lab							
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	87		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140



Project Number: PEN2301 Report Date: 03/30/23

SAMPLE RESULTS

Lab ID: L2314229-07

Client ID: OA001

Sample Location: 1 SHORE RD GLENWOOD LANDING, NY

Date Collected: 03/17/23 09:08

Date Received: 03/17/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM Analytical Date: 03/30/23 01:04

Analyst: RAY

	ppbV				ug/m3		Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM - Ma	nsfield Lab							
Vinyl chloride	ND	0.020		ND	0.051			1
1,1-Dichloroethene	ND	0.020		ND	0.079			1
cis-1,2-Dichloroethene	ND	0.020		ND	0.079			1
1,1,1-Trichloroethane	ND	0.020		ND	0.109			1
Carbon tetrachloride	0.072	0.020		0.453	0.126			1
Trichloroethene	ND	0.020		ND	0.107			1
Tetrachloroethene	0.123	0.020		0.834	0.136			1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	93		60-140



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314229

Project Number: PEN2301 Report Date: 03/30/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15 Analytical Date: 03/29/23 16:40

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfield	d Lab for samp	ole(s): 01-	-07 Batch:	: WG17604	114-4			
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: FORMER PENETREX PROCESSING Lab Number: L2314229

Project Number: PEN2301 Report Date: 03/30/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15 Analytical Date: 03/29/23 16:40

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfield	d Lab for samp	ole(s): 01-	07 Batch	n: WG17604	14-4			
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: FORMER PENETREX PROCESSING Lab Number: L2314229

Project Number: PEN2301 Report Date: 03/30/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15 Analytical Date: 03/29/23 16:40

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfi	eld Lab for samp	le(s): 01-	-07 Batch	n: WG17604	14-4			
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



Project Name: FORMER PENETREX PROCESSING Lab Number: L2314229

Project Number: PEN2301 Report Date: 03/30/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM Analytical Date: 03/29/23 17:19

		ppbV					Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM -	Mansfield Lab f	or sample	(s): 01-0	5,07 Batch:	WG176	0416-4		
Vinyl chloride	ND	0.020		ND	0.051			1
1,1-Dichloroethene	ND	0.020		ND	0.079			1
cis-1,2-Dichloroethene	ND	0.020		ND	0.079			1
1,1,1-Trichloroethane	ND	0.020		ND	0.109			1
Carbon tetrachloride	ND	0.020		ND	0.126			1
Trichloroethene	ND	0.020		ND	0.107			1
Tetrachloroethene	ND	0.020		ND	0.136			1



Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number: L2314229

Report Date: 03/30/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
/olatile Organics in Air - Mansfield Lab	Associated sample(s):	01-07	Batch: WG176041	14-3				
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	102		-		70-130	-		
Freon-114	92		-		70-130	-		
Vinyl chloride	92		-		70-130	-		
1,3-Butadiene	92		-		70-130	-		
Bromomethane	96		-		70-130	-		
Chloroethane	110		-		70-130	-		
Ethanol	84		-		40-160	-		
Vinyl bromide	90		-		70-130	-		
Acetone	84		-		40-160	-		
Trichlorofluoromethane	96		-		70-130	-		
Isopropanol	80		-		40-160	-		
1,1-Dichloroethene	92		-		70-130	-		
Tertiary butyl Alcohol	71		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	92		-		70-130	-		
Carbon disulfide	80		-		70-130	-		
Freon-113	93		-		70-130	-		
trans-1,2-Dichloroethene	104		-		70-130	-		
1,1-Dichloroethane	107		-		70-130	-		
Methyl tert butyl ether	85		-		70-130	-		
2-Butanone	100		-		70-130	-		
cis-1,2-Dichloroethene	111		-		70-130	-		



Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number: L2314229

Report Date: 03/30/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
/olatile Organics in Air - Mansfield Lab	Associated sample(s):	01-07	Batch: WG176041	4-3				
Ethyl Acetate	101		-		70-130	-		
Chloroform	105		-		70-130	-		
Tetrahydrofuran	100		-		70-130	-		
1,2-Dichloroethane	104		-		70-130	-		
n-Hexane	99		-		70-130	-		
1,1,1-Trichloroethane	102		-		70-130	-		
Benzene	94		-		70-130	-		
Carbon tetrachloride	104		-		70-130	-		
Cyclohexane	99		-		70-130	-		
1,2-Dichloropropane	106		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	96		-		70-130	-		
Trichloroethene	101		-		70-130	-		
2,2,4-Trimethylpentane	102		-		70-130	-		
Heptane	109		-		70-130	-		
cis-1,3-Dichloropropene	103		-		70-130	-		
4-Methyl-2-pentanone	104		-		70-130	-		
trans-1,3-Dichloropropene	86		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	99		-		70-130	-		
2-Hexanone	101		-		70-130	-		
Dibromochloromethane	105		-		70-130	-		
1,2-Dibromoethane	105		-		70-130	-		



03/30/23

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number: L2314229

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Ass	sociated sample(s):	01-07	Batch: WG176041	14-3				
Tetrachloroethene	100		-		70-130	-		
Chlorobenzene	102		-		70-130	-		
Ethylbenzene	114		-		70-130	-		
p/m-Xylene	114		-		70-130	-		
Bromoform	111		-		70-130	-		
Styrene	110		-		70-130	-		
1,1,2,2-Tetrachloroethane	108		-		70-130	-		
o-Xylene	117		-		70-130	-		
4-Ethyltoluene	107		-		70-130	-		
1,3,5-Trimethylbenzene	105		-		70-130	-		
1,2,4-Trimethylbenzene	105		-		70-130	-		
Benzyl chloride	99		-		70-130	-		
1,3-Dichlorobenzene	115		-		70-130	-		
1,4-Dichlorobenzene	118		-		70-130	-		
1,2-Dichlorobenzene	111		-		70-130	-		
1,2,4-Trichlorobenzene	106		-		70-130	-		
Hexachlorobutadiene	106		-		70-130	-		



Lab Control Sample Analysis Batch Quality Control

FORMER PENETREX PROCESSING **Project Name:**

Project Number: PEN2301

Lab Number: L2314229

Report Date:

03/30/23

Parameter	LCS %Recovery	Qual		CSD covery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics in Air by SIM - Mansfield La	b Associated s	ample(s):	01-05,07	Batch:	WG1760416-3	3				
Vinyl chloride	95			-		70-130	-		25	
1,1-Dichloroethene	95			-		70-130	-		25	
cis-1,2-Dichloroethene	112			-		70-130	-		25	
1,1,1-Trichloroethane	100			-		70-130	-		25	
Carbon tetrachloride	97			-		70-130	-		25	
Trichloroethene	102			-		70-130	-		25	
Tetrachloroethene	105			-		70-130	-		25	

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Lab Number:

L2314229

Report Date: 03/30/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Qual Limits	
Volatile Organics in Air - Mansfield Lab	•	QC Batch ID: WG1760414-5			05 Client ID: IA005	
Dichlorodifluoromethane	0.454	0.473	ppbV	4	25	
Chloromethane	0.576	0.573	ppbV	1	25	
Freon-114	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	2.44	2.45	ppbV	0	25	
Trichlorofluoromethane	0.220	0.222	ppbV	1	25	
Isopropanol	0.526	0.533	ppbV	1	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	
2-Butanone	ND	ND	ppbV	NC	25	
Ethyl Acetate	ND	ND	ppbV	NC	25	



03/30/23

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

Quality Control Lab Number:

Report Date:

RPD Native Sample Duplicate Sample Units RPD Limits Qual **Parameter** Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1760414-5 QC Sample: L2314229-05 Client ID: IA005 Chloroform ND ND ppbV NC 25 NC ND 25 Tetrahydrofuran ND ppbV 1,2-Dichloroethane ND ND NC 25 ppbV n-Hexane NC 25 ND 0.206 ppbV Benzene ND ND NC 25 Vdqq Cyclohexane ND ND ppbV NC 25 1,2-Dichloropropane NC 25 ND ND ppbV Bromodichloromethane ND ND NC 25 ppbV NC 25 1,4-Dioxane ND ND ppbV NC 25 2,2,4-Trimethylpentane ND ND ppbV Heptane ND ND ppbV NC 25 cis-1,3-Dichloropropene NC 25 ND ND ppbV 4-Methyl-2-pentanone ND ND ppbV NC 25 ND NC 25 trans-1,3-Dichloropropene ND ppbV NC ND 25 1.1.2-Trichloroethane ND ppbV Toluene 0.322 0.340 ppbV 5 25 ND ND NC 25 2-Hexanone ppbV Dibromochloromethane ND NC 25 ND Vdqq 1,2-Dibromoethane ND NC 25 ND ppbV Chlorobenzene ND NC 25 ND ppbV Ethylbenzene ND ND ppbV NC 25



Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301

lity Control Lab Number:

Report Date: 03/30/23

arameter	Native Sample	Duplicate Samp	le Units	RPD	RPD Qual Limits
olatile Organics in Air - Mansfield Lab Ass	ociated sample(s): 01-07	QC Batch ID: WG17604	14-5 QC Sample	e: L2314229-	05 Client ID: IA005
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
latile Organics in Air by SIM - Mansfield L	ab Associated sample(s):	01-05,07 QC Batch ID:	WG1760416-5	QC Sample:	L2314229-05 Client ID: IA005
Vinyl chloride	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Carbon tetrachloride	0.062	0.066	ppbV	6	25
Trichloroethene	ND	ND	ppbV	NC	25
Tetrachloroethene	0.276	0.282	ppbV	2	25



Lab Number: L2314229

Project Number: PEN2301 Report Date: 03/30/23

Canister and Flow Controller Information

Samster 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
L2314229-01	IA001	0234	Flow 5	03/13/23	415771		-	-	-	Pass	3.0	2.8	7
L2314229-01	IA001	3372	6.0L Can	03/13/23	415771	L2311656-04	Pass	-29.3	-6.7	-	-	-	-
L2314229-02	IA002	02267	Flow 5	03/13/23	415771		-	-	-	Pass	3.0	3.1	3
L2314229-02	IA002	3565	6.0L Can	03/13/23	415771	L2311656-05	Pass	-29.4	-6.7	-	-	-	-
L2314229-03	IA003	02240	Flow 5	03/13/23	415771		-	-	-	Pass	3.0	2.7	11
L2314229-03	IA003	3382	6.0L Can	03/13/23	415771	L2311656-04	Pass	-29.3	-6.4	-	-	-	-
L2314229-04	IA004	0011	Flow 5	03/13/23	415771		-	-	-	Pass	3.0	2.9	3
L2314229-04	IA004	1866	6.0L Can	03/13/23	415771	L2311656-05	Pass	-29.3	-7.5	-	-	-	-
L2314229-05	IA005	01883	Flow 5	03/13/23	415771		-	-	-	Pass	3.0	3.1	3
L2314229-05	IA005	905	6.0L Can	03/13/23	415771	L2311656-05	Pass	-29.3	-6.5	-	-	-	-
L2314229-06	SV005	01212	Flow 5	03/13/23	415771		-	-	-	Pass	3.0	3.2	6
L2314229-06	SV005	1530	6.0L Can	03/13/23	415771	L2311656-05	Pass	-29.3	-9.0	-	-	-	-
L2314229-07	OA001	0097	Flow 5	03/13/23	415771		-	-	-	Pass	3.0	1.8	50
L2314229-07	OA001	2980	6.0L Can	03/13/23	415771	L2311656-04	Pass	-29.4	-6.7	-	-	-	-



Project Name:

FORMER PENETREX PROCESSING

L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT Report Date: 03/30/23

Air Canister Certification Results

Lab ID: L2311656-04

Date Collected: 03/06/23 18:00 Client ID: CAN 1712 SHELF 42 Date Received: 03/07/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Matrix: Air Anaytical Method: 48,TO-15 Analytical Date: 03/07/23 19:52

Analyst: RAY

		ppbV			ug/m3		_	Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfield Lab	1							
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



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-04

Date Collected: 03/06/23 18:00 Client ID: CAN 1712 SHELF 42 Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

sample Depth:		ppbV			ug/m3	_	Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mans	field 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
Vinyl acetate	ND	1.00		ND	3.52			1
Xylenes, total	ND	0.600		ND	0.869			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



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-04

Date Collected: 03/06/23 18:00 Client ID: CAN 1712 SHELF 42 Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

Затріе Беріп.		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	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



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-04

Date Collected: 03/06/23 18:00 Client ID: CAN 1712 SHELF 42 Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

Запріє Беріп.		ppbV		ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	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
ert-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: Lab Number: **BATCH CANISTER CERTIFICATION** L2311656

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-04

Date Collected: 03/06/23 18:00 Client ID: CAN 1712 SHELF 42 Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

Sample Depth:

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

Dilution Factor Results Qualifier Units RDL Tentatively Identified Compounds

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT Report Date: 03/30/23

Air Canister Certification Results

Lab ID: L2311656-04

Date Collected: 03/06/23 18:00 Client ID: CAN 1712 SHELF 42 Date Received: 03/07/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Anaytical Method: 48,TO-15-SIM Analytical Date: 03/07/23 19:52

Analyst: RAY

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	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



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-04

Date Collected: 03/06/23 18:00 Client ID: CAN 1712 SHELF 42 Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

Sample Depth.								
Parameter	Results	ppbV RL	MDL	Results	ug/m3 RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - I		RL .	WIDL	Nesuits	INE.	WIDE	Qualifier	
1,2-Dichloropropane		0.000		ND	0.000			4
Bromodichloromethane	ND	0.020		ND	0.092			1
1,4-Dioxane	ND	0.020		ND	0.134			1
·	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: Lab Number: **BATCH CANISTER CERTIFICATION** L2311656

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-04

Date Collected: 03/06/23 18:00 Client ID: CAN 1712 SHELF 42 Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

		ppbV		ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	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	95		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT Report Date: 03/30/23

Air Canister Certification Results

Lab ID: L2311656-05

Date Collected: 03/06/23 18:00 Client ID: **CAN 3052 SHELF 43** Date Received: 03/07/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Matrix: Air Anaytical Method: 48,TO-15 03/07/23 20:31 Analytical Date:

Analyst: RAY

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfiel	ld 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



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-05

Date Collected: 03/06/23 18:00 Client ID: **CAN 3052 SHELF 43** Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

Запріє Бериі.		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	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
Vinyl acetate	ND	1.00		ND	3.52			1
Xylenes, total	ND	0.600		ND	0.869			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



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-05

Date Collected: 03/06/23 18:00 Client ID: **CAN 3052 SHELF 43** Date Received: 03/07/23

Sample Location:

Field Prep: Not Specified

Запре Верш.		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	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
rans-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
o/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



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-05

Date Collected: 03/06/23 18:00 Client ID: **CAN 3052 SHELF 43** Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

Затріє Беріт.		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	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: Lab Number: **BATCH CANISTER CERTIFICATION** L2311656

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-05

Date Collected: 03/06/23 18:00 Client ID: **CAN 3052 SHELF 43** Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

Sample Depth:

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

Dilution Factor Results Qualifier Units RDL Tentatively Identified Compounds

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT Report Date: 03/30/23

Air Canister Certification Results

Lab ID: L2311656-05

Date Collected: 03/06/23 18:00 Client ID: **CAN 3052 SHELF 43** Date Received: 03/07/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Anaytical Method: 48,TO-15-SIM Analytical Date: 03/07/23 20:31

Analyst: RAY

	ppbV			ug/m3			Dilution
Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
sfield Lab							
ND	0.200		ND	0.989			1
ND	0.200		ND	0.413			1
ND	0.050		ND	0.349			1
ND	0.020		ND	0.051			1
ND	0.020		ND	0.044			1
ND	0.020		ND	0.078			1
ND	0.100		ND	0.264			1
ND	0.050		ND	0.115			1
ND	1.00		ND	2.38			1
ND	0.050		ND	0.281			1
ND	0.500		ND	1.09			1
ND	0.020		ND	0.079			1
ND	0.500		ND	1.74			1
ND	0.050		ND	0.383			1
ND	0.020		ND	0.079			1
ND	0.020		ND	0.081			1
ND	0.200		ND	0.721			1
ND	0.500		ND	1.47			1
ND	0.020		ND	0.079			1
ND	0.020		ND	0.098			1
ND	0.020		ND	0.081			1
ND	0.020		ND	0.109			1
ND	0.100		ND	0.319			1
ND	0.020		ND	0.126			1
	Sfield Lab ND ND ND ND ND ND ND ND ND N	Results RL sfield Lab ND 0.200 ND 0.200 ND 0.050 ND 0.020 ND 0.020 ND 0.020 ND 0.100 ND 0.050 ND 1.00 ND 0.050 ND 0.500 ND 0.500 ND 0.020 ND 0.050 ND 0.020 ND 0.020 ND 0.020 ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 0.020 ND 0.020 ND 0.020	Results RL MDL sfield Lab ND 0.200 ND 0.200 ND 0.050 ND 0.020 ND 0.020 ND 0.100 ND 0.050 ND 0.500 ND 0.500 ND 0.050 ND 0.050 ND 0.050 ND 0.050 ND 0.020 ND 0.020 ND 0.020 ND 0.020 ND 0.020 ND 0.020	Results RL MDL Results sfield Lab ND 0.200 ND ND 0.200 ND ND 0.050 ND ND 0.020 ND ND 0.020 ND ND 0.020 ND ND 0.020 ND ND 0.050 ND ND 0.050 ND ND 0.050 ND ND 0.050 ND ND 0.020 ND ND 0.050 ND ND 0.050 ND ND 0.050 ND ND 0.020 ND ND 0.020 ND ND 0.020 ND ND 0.020 <td>Results RL MDL Results RL Sfield Lab ND 0.989 ND 0.989 ND 0.200 ND 0.413 ND 0.050 ND 0.349 ND 0.050 ND 0.051 ND 0.020 ND 0.051 ND 0.020 ND 0.078 ND 0.020 ND 0.078 ND 0.100 ND 0.078 ND 0.100 ND 0.078 ND 0.050 ND 0.115 ND 0.050 ND 0.281 ND 0.050 ND 1.09 ND 0.050 ND 0.079 ND 0.050 ND 0.079 ND 0.050 ND 0.079 ND</td> <td>Results RL MDL Results RL MDL sfield Lab ND 0.200 ND 0.989 ND 0.200 ND 0.413 ND 0.050 ND 0.349 ND 0.050 ND 0.051 ND 0.020 ND 0.044 ND 0.020 ND 0.044 ND 0.020 ND 0.044 ND 0.020 ND 0.044 ND 0.020 ND 0.074 ND 0.020 ND 0.115 ND 0.050 ND 0.281 ND 0.050 ND 0.079 ND 0.050 ND 0.079 <t< td=""><td>Results RL MDL Results RL MDL Qualifier Sfield Lab ND 0.200 ND 0.989 ND 0.200 ND 0.413 ND 0.050 ND 0.349 ND 0.020 ND 0.051 ND 0.020 ND 0.044 ND 0.020 ND 0.078 ND 0.100 ND 0.078 ND 0.100 ND 0.264 ND 0.100 ND 0.281 ND 0.050 ND 0.281 ND 0.500 ND 0.079 </td></t<></td>	Results RL MDL Results RL Sfield Lab ND 0.989 ND 0.989 ND 0.200 ND 0.413 ND 0.050 ND 0.349 ND 0.050 ND 0.051 ND 0.020 ND 0.051 ND 0.020 ND 0.078 ND 0.020 ND 0.078 ND 0.100 ND 0.078 ND 0.100 ND 0.078 ND 0.050 ND 0.115 ND 0.050 ND 0.281 ND 0.050 ND 1.09 ND 0.050 ND 0.079 ND 0.050 ND 0.079 ND 0.050 ND 0.079 ND	Results RL MDL Results RL MDL sfield Lab ND 0.200 ND 0.989 ND 0.200 ND 0.413 ND 0.050 ND 0.349 ND 0.050 ND 0.051 ND 0.020 ND 0.044 ND 0.020 ND 0.044 ND 0.020 ND 0.044 ND 0.020 ND 0.044 ND 0.020 ND 0.074 ND 0.020 ND 0.115 ND 0.050 ND 0.281 ND 0.050 ND 0.079 ND 0.050 ND 0.079 <t< td=""><td>Results RL MDL Results RL MDL Qualifier Sfield Lab ND 0.200 ND 0.989 ND 0.200 ND 0.413 ND 0.050 ND 0.349 ND 0.020 ND 0.051 ND 0.020 ND 0.044 ND 0.020 ND 0.078 ND 0.100 ND 0.078 ND 0.100 ND 0.264 ND 0.100 ND 0.281 ND 0.050 ND 0.281 ND 0.500 ND 0.079 </td></t<>	Results RL MDL Results RL MDL Qualifier Sfield Lab ND 0.200 ND 0.989 ND 0.200 ND 0.413 ND 0.050 ND 0.349 ND 0.020 ND 0.051 ND 0.020 ND 0.044 ND 0.020 ND 0.078 ND 0.100 ND 0.078 ND 0.100 ND 0.264 ND 0.100 ND 0.281 ND 0.050 ND 0.281 ND 0.500 ND 0.079



L2311656

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 03/30/23

Air Canister Certification Results

Lab ID: L2311656-05

Date Collected: 03/06/23 18:00 Client ID: CAN 3052 SHELF 43 Date Received: 03/07/23

Sample Location: Field Prep: Not Specified

Sample Depth:		ppbV			ug/m3	n3		
Parameter	Results	RL	MDL	Results	RL	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
sis-1,3-Dichloropropene	ND	0.020		ND	0.091			1
I-Methyl-2-pentanone	ND	0.500		ND	2.05			1
rans-1,3-Dichloropropene	ND	0.020		ND	0.091			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
,2-Dibromoethane	ND	0.020		ND	0.154			1
Tetrachloroethene	ND	0.020		ND	0.136			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
o/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
,1,2,2-Tetrachloroethane	ND	0.020		ND	0.137			1
o-Xylene	ND	0.020		ND	0.087			1
sopropylbenzene	ND	0.200		ND	0.983			1
4-Ethyltoluene	ND	0.020		ND	0.098			1
,3,5-Trimethybenzene	ND	0.020		ND	0.098			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



Serial_No:03302316:44

Project Name: BATCH CANISTER CERTIFICATION Lab Number: L2311656

Project Number: CANISTER QC BAT Report Date: 03/30/23

Air Canister Certification Results

Lab ID: L2311656-05

Client ID: CAN 3052 SHELF 43

Sample Location:

Date Collected:

03/06/23 18:00

Date Received:

03/07/23

Field Prep:

Not Specified

Sample Depth:

• •		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM - Mans	sfield 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	96		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140



Project Name: FORMER PENETREX PROCESSING

Project Number: PEN2301 Report Date: 03/30/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

CoolerCustody SealNAPresent/Intact

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рH	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2314229-01A	Canister - 2.7 Liter	NA	NA			Υ	Absent		TO15-SIM(30),TO15-LL(30)
L2314229-02A	Canister - 2.7 Liter	NA	NA			Υ	Absent		TO15-LL(30),TO15-SIM(30)
L2314229-03A	Canister - 2.7 Liter	NA	NA			Υ	Absent		TO15-LL(30),TO15-SIM(30)
L2314229-04A	Canister - 2.7 Liter	NA	NA			Υ	Absent		TO15-SIM(30),TO15-LL(30)
L2314229-05A	Canister - 2.7 Liter	NA	NA			Υ	Absent		TO15-LL(30),TO15-SIM(30)
L2314229-06A	Canister - 2.7 Liter	NA	NA			Υ	Absent		TO15-LL(30)
L2314229-07A	Canister - 2.7 Liter	NA	NA			Υ	Absent		TO15-LL(30),TO15-SIM(30)



Project Name: Lab Number: FORMER PENETREX PROCESSING L2314229 **Report Date: Project Number:** PEN2301 03/30/23

GLOSSARY

Acronyms

EDL

LOQ

MS

RPD

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.)

- 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.)

- 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

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

MDI - 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.

> - 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.

- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile NR

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.

- 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.

TEO - 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:FORMER PENETREX PROCESSINGLab Number:L2314229Project Number:PEN2301Report Date:03/30/23

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.
- 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 concentrations of the analyte at less than ten times (10x) the 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- ${\bf J} \qquad \hbox{-Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs)}.$
- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name:FORMER PENETREX PROCESSINGLab Number:L2314229Project Number:PEN2301Report Date:03/30/23

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.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- 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



Serial_No:03302316:44

Project Name:FORMER PENETREX PROCESSINGLab Number:L2314229Project Number:PEN2301Report Date:03/30/23

REFERENCES

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.



Serial_No:03302316:44

Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873

Pre-Qualtrax Document ID: 08-113

Revision 19

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Published Date: 4/2/2021 1:14:23 PM

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;

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, SM4500CI-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 II, 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.

Document Type: Form

320 Forbes Blvd, Ma TEL: 508-822-9300	CHAIN OF CUSTOD	Projec	YSIS ct Informa	ation		Power:	Rep	Rec'd in I					ables	_	Bil	ling	Info	b #: rmatio	n	U2819
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6710	SV005		1012	0857							The second	01212		+	+		+	+-		
-04							_				1000	0146								
-07	04001	-	1030	0908	-30.70	-8.07	AA	V	1	V	2980	0097		1						



APPENDIX D



Appendix A NYSDOH Decision Matrix A SV005/IA005

1 Shore Road, Glenwood Landing, NY

	4.1.		local according	Commenter TRICHLOROFT	HENE /TCE\ / / 3\
NYSDOH Decision I				Concentration - TRICHLOROET	
Sample Location S\	/UU3/IAUU5		< 0.2 ND	0.2 to < 1	1 and Above
tion - E) (ug/m3)	< 6	ND	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
Sub-Slab Concentration - TRICHLOROETHENE (TCE) (ug/m3)	6 to < 60		4. No Further Action	5. MONITOR	6. MITIGATE
Sub-Si TRICHLOR	60 and Above		7. MITIGATE 8. MITIGATE		9. MITIGATE
NYSDOH Decision I	Matrix A		Indoor A	ir Concentration - cis-1,2-Dichlo	proethene (ug/m³)
Sample Location SV			< 0.2	0.2 to < 1	1 and Above
Sample Location 5	7003/11003		ND	0.2 to 1	T and Above
n - cis-1,2- g/m3)	< 6	ND	No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
Sub-Slab Concentration - cis-1,2- Dichloroethene(ug/m3)	6 to < 60		4. No Further Action	5. MONITOR	6. MITIGATE
Sub-Slab Dich	60 and Above		7. MITIGATE 8. MITIGATE		9. MITIGATE
HANCOOLL Deeleles I	4-+		Indoor	Air Concentration 1 1 Diables	reathers (va/m³)
NYSDOH Decision I				Air Concentration - 1,1-Dichlor	
NYSDOH Decision I Sample Location SV			< 0.2	Air Concentration - 1,1-Dichlor 0.2 to < 1	oethene (µg/m³) 1 and Above
Sample Location SV		ND			
Concentration - 1,1- roethene (ug/m3)	/005/IA005	ND	< 0.2 ND	0.2 to < 1	1 and Above 3. IDENTIFY SOURCE(S) and
Sample Location SV	/005/IA005 < 6	ND	< 0.2 ND 1. No further Action	0.2 to < 1 2. No Further Action	1 and Above 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
Sub-Slab Concentration - 1,1- Dichloroethene (ug/m3)	<pre>/005/IA005</pre>	ND	< 0.2 ND 1. No further Action 4. No Further Action 7. MITIGATE	0.2 to < 1 2. No Further Action 5. MONITOR 8. MITIGATE	1 and Above 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE 6. MITIGATE 9. MITIGATE
Sample Location SV Sup-Slab Concentration - 1,1- Dichloroethene (ug/m3)	<pre>//005/IA005 < 6 6 to < 60 60 and Above Matrix A</pre>	ND	 < 0.2 ND 1. No further Action 4. No Further Action 7. MITIGATE 	0.2 to < 1 2. No Further Action 5. MONITOR 8. MITIGATE	1 and Above 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE 6. MITIGATE 9. MITIGATE
Sub-Slab Concentration - 1,1- Dichloroethene (ug/m3)	<pre>//005/IA005 < 6 6 to < 60 60 and Above Matrix A</pre>	ND	< 0.2 ND 1. No further Action 4. No Further Action 7. MITIGATE	0.2 to < 1 2. No Further Action 5. MONITOR 8. MITIGATE	1 and Above 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE 6. MITIGATE 9. MITIGATE
Sample Location SN Snp-Slab Concentration - 1,1- Dichloroethene (ug/m3) Sample Location SN SA	<pre>//005/IA005 < 6 6 to < 60 60 and Above Matrix A</pre>	ND ND	 < 0.2 ND 1. No further Action 4. No Further Action 7. MITIGATE 	0.2 to < 1 2. No Further Action 5. MONITOR 8. MITIGATE Air Concentration - Carbon Tetr 0.2 to < 1	1 and Above 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE 6. MITIGATE 9. MITIGATE
Sample Location SV Sup-Slab Concentration - 1,1- Dichloroethene (ug/m3)	/005/IA005 < 6 6 to < 60 60 and Above Matrix A /005/IA005		< 0.2 ND 1. No further Action 4. No Further Action 7. MITIGATE Indoor F < 0.2	0.2 to < 1 2. No Further Action 5. MONITOR 8. MITIGATE Air Concentration - Carbon Tetr 0.2 to < 1 0.39	1 and Above 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE 6. MITIGATE 9. MITIGATE achloride (µg/m³) 1 and Above 3. IDENTIFY SOURCE(S) and

Appendix D NYSDOH Decision Matrices B/C SV005/IA005

1 Shore Road, Glenwood Landing, NY

NYSDOH Decision Ma	atrix B		Indoor Air Co	ncentration - Tetrachloroeth	ene (PCE) (μg/m³)
Sample Location SV0	05/IA005		< 3	3 to < 10	10 and Above
			1.87		
rtion - :) (ug/m3)	< 100	1.7	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
Sub-Slab Concentration - Fetrachloroethene (PCE) (ug/m3)	100 to < 1,000		4. No Further Action	5. MONITOR	6. MITIGATE
Sub-SI Tetrachlor	1,000 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE
NYSDOH Decision Ma	atrix B		Indoor Air C	oncentration - 1,1,1-Trichlor	roethane (μg/m³)
Sample Location SV0	05/IA005		<3	3 to < 10	10 and Above
·			ND		
n - 1,1,1- g/m3)	< 100	ND	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
Sub-Slab Concentration - 1,1,1- Trichloroethane (ug/m3)	100 to < 1,000		4. No Further Action	5. MONITOR	6. MITIGATE
Sub-Slab Trichl	1,000 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE
NYSDOH Decision Ma	atriv R	•	Indoor Air (Concentration - Methylene (`hloride (ug/m³)
Sample Location SV0			< 3	3 to < 10	10 and Above
Sample Location 3Vu	03/11/003		ND ND	310 10	To dild Above
Methylene 3)	< 100	ND	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
Sub-Slab Concentration - Methylene Chloride (ug/m3)	100 to < 1,000		4. No Further Action	5. MONITOR	6. MITIGATE
Sub-Slab Co	1,000 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE

NYSDOH Decision M	atrix C		Indoor Air Concentration	n - Vinyl Chloride (μg/m³)
Sample Location SV0	005/IA005		< 0.2	0.2 and Above
			ND	
on - Vinyl n3)	< 6	ND	1. No further Action	2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
lb Concentration Chloride (ug/m3)	6 to < 60		3. MONITOR	4. MITIGATE
Sub-Slab Conc Chlorid	60 and Above		5. MITIGATE	6. MITIGATE



APPENDIX E





LABORATORY DATA CONSULTANTS, INC. 2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

P.W. Grosser Consulting 630 Johnson Ave, Suite 7 Bohemia, NY 11716 ATTN: Mr. Derek Ersbak dereke@pwgrosser.com

May 9, 2023

SUBJECT: PEN2301 - Data Validation

Dear Mr. Ersbak,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on April 7, 2023. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #56504:

SDG#	Fraction
L2314139	Volatiles,
L2314229	

The data validation was performed under Category B guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA Region 2 Standard Operating Procedure for Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SOP HW-24, Revision 4 (October 2014)
- USEPA Region 2 Analysis of Volatile Organic Compounds in Air Contained Canisters, SOP HW-31, Revision 6 (September 2016)
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA 540-R-20-005 (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng

pgeng@lab-data.com

Project Manager/Senior Chemist

Attachment 1 900 pages-EM Client Selected Samples (5% of data) LDC# 56504 (P.W. Grosser Consulting - Bohemia, NY / Penetrex, PEN2301) Category B VOA DATE VOA DATE LDC SDG# REC'D DUE (TO-15) (8260D) Matrix: Air/Water/Soil L2314139 04/07/23 04/28/23 В 0 L2314229 04/07/23 04/28/23 0 0 0 0 0 0 0 0 TR/PG

PEN2301, NYSDEC

Site:

PEN2301

Laboratory:

Alpha Analytical, Inc., Westborough, MA

Report No.:

L2314139

Reviewer:

Felomina Tanguilig and Pci Geng/Laboratory Data Consultants for P.W.

Grosser Consulting

Date:

May 8, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-9D	L2314139-10	VOC
DUP001	L2314139-12	VOC

Associated QC Samples(s):

Field/Trip Blanks:

TRIP BLANK

Field Duplicate pair:

MW-9D and DUP001

The above-listed water sample was collected on March 16, 2023 and was analyzed for volatile organic compounds (VOCs) by SW-846 method 8260D. The data validation was performed in accordance with the USEPA Region 2 Standard Operating Procedure for Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SOP HW-24, Revision 4 (October 2014) and the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA 540-R-20-005 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Laboratory Job L2314139, Organics, Page 1 of 5

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

Initial calibration:

Compounds that did not meet criteria are summarized in the following tables.

Date	Instrument ID	Compound	RRF (Limits)	Associated Samples		Validation Action
02/08/23	ICAL-MS105	1,4-Dioxane	0.00132 (≥0.005)	MW-9D DUP001	+	UJ nondetects

- X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
- XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
- SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
- += Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane results were estimated due to response factor exceedance. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Date	Instrument ID	Compound	ICV %D	Associated Samples	_	Validation Action
02/08/23	ICV-MS105	Bromomethane	30.8	MW-9D DUP001	SS	UJ nondetects

- X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
- XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
- SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
- += Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The bromomethane results were estimated due to second source calibration exceedance. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following tables.

Date	Instrument ID	Compound	CC %D	Associated Samples		Validation Action
03/21/23	CCV-VOA105	Dichlorodifluoromethane	24,2	MW-9D	XX	UJ nondetects
'	l	Bromomethane	21.5	DUP001	XX	UJ nondetects
		Acetone	26.7		XX	UJ nondetects
	i	2-Butanone	26.3		XX	UJ nondetects
i '	'	trans-1,4-Dichloro-2-butene	22.4		XX	UJ nondetects
l		1,2-Dibromo-3-chloropropanc	28.6		XX	UJ nondetects
		2-Hexanone	25.5		XX	UJ nondetects
		Bromoform	24.3		XX	UJ nondetects

- X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
- XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
- SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
- += Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The dichlorodifluoromethane, bromomethane, acetone, 2-butanone, trans-1,4-dichloro-2-butene, 1,2-dibromo-3-chloropropane, 2-hexanone, and bromoform results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Date	Instrument ID	Compound	RRF (Limits)	Associated Samples		Validation Action
03/21/23	CCV-VOA105	1,4-Dioxane	0.00122 (≥0.005)	MW-9D DUP001	+	UJ nondetects

- X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
- XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
- SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
- + = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane results were estimated due to response factor exceedance. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

Contamination was not detected in the method blanks.

No positive results were found in the trip blank sample TRIP BLANK for VOC analysis.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analyses were not associated with this sample set. Validation action was not required on this basis.

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples MW-9D and DUP001 were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations.

	Concentr		
Compound	MW-9D	DUP001	RPD
Tetrachloroethene	0.36	0.34	6

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analysis. These results were qualified as estimated (J) by the laboratory.

Dilutions were not required for VOC analysis.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

- U The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.
- UJ The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.
- JN The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.
- R Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Client : P. W. Grosser

Project Name : FORMER PENETREX PROCESSING

Lab ID : L2314139-10 Client ID : MW-9D

Sample Location : 1 SHORE RD, GLENWOOD LANDING, NY

Sample Matrix : WATER
Analytical Method : 1,8260D
Lab File ID : V05230321A21

Sample Amount : 10 ml Level : LOW Extract Volume (MeOH) : N/A Lab Number : L2314139
Project Number : PEN2301
Date Collected : 03/16/23 09:35

Date Received : 03/17/23 Date Analyzed : 03/21/23 14:42

Dilution Factor : 1
Analyst : LAC
Instrument ID : VOA105
GC Column : RTX-502.2

%Solids : N/A Injection Volume : N/A

RL 2.5 2.5 2.5 0.50	0.70 0.70 0.70 0.70	Qualifier U U U
2.5 2.5 0.50	0.70 0.70	V
2.5 2.5 0.50	0.70 0.70	U
2.5 0.50	0.70	
0.50		v
****	0.13	
1.0		U
	0.14	
0.50	0.15	U
1.5	0.50	u √
0.50	0.18	1-2
2.5	0.70	υU
2.5	0.70	u
0.50	0.13	U
2.5	0.70	U
0.50	0.19	U
0.50	0.16	U
0.50	0.14	U
0.50	0.14	U
2.5	0.70	υ ₩
2.0	0.65	u UI
0.50	0.17	u U
0.50	0.16	u (
2.5	0.70	U
2.5	0.70	U
2.5	0.70	u /
2.5	0.70	n NZ
1.0	0.07	u 1/
	0.50 2.5 2.5 0.50 2.5 0.50 0.50 0.50 0.5	0.50 0.18 2.5 0.70 2.5 0.70 0.50 0.13 2.5 0.70 0.50 0.19 0.50 0.16 0.50 0.14 2.5 0.70 2.0 0.65 0.50 0.17 0.50 0.16 2.5 0.70 2.5 0.70 2.5 0.70 2.5 0.70 2.5 0.70 2.5 0.70



5/8/=> &

: P. W. Grosser Client

: FORMER PENETREX PROCESSING Project Name

Lab ID : L2314139-10 Client ID : MW-9D

Sample Location : 1 SHORE RD, GLENWOOD LANDING, NY

: WATER Sample Matrix **Analytical Method** : 1,8260D Lab File ID : V05230321A21

Sample Amount : 10 ml Level : LOW Extract Volume (MeOH): N/A

Lab Number : L2314139 Project Number : PEN2301 Date Collected : 03/16/23 09:35 Date Received : 03/17/23

: 03/21/23 14:42 Date Analyzed

Dilution Factor : 1 Analyst : LAC : VOA105 Instrument ID GC Column : RTX-502.2

%Solids : N/A Injection Volume: N/A

		ug/L		
Parameter	Results	RL	MDL	Qualifier
				•
Chloroethane	ND	2.5	0.70	
1,1-Dichloroethene	ND	0.50	0.17	u l
trans-1,2-Dichloroethene	ND	2.5	0.70	U
Trichloroethene	ND	0.50	0.18	U
1,2-Dichlorobenzene	ND	2.5	0.70	υ
1,3-Dichlorobenzene	ND	2.5	0.70	U
1,4-Dichlarabenzene	ND	2.5	0.70	U
Methyl tert butyl ether	ND	2.5	0.70	U
p/m-Xylene	ND	2.5	0.70	U
o-Xylene	ND	2.5	0 .70	υ
Xylenes, Total	ND	2.5	0.70	U
cls-1,2-Dichloraethene	ND	2.5	0.70	u
1,2-Dichloroethene, Total	ND	2.5	0.70	U
Dibromomethane	ND	5.0	1.0	U
1,2,3-Trichloropropane	ND	2.5	0.70	υ
Acrylonitrile	ND	5.0	1.5	U
Styrene	ND	2.5	0.70	u J
Dichlorodifluoromethane	ND	5.0	1.0	7N n
Acetons	ND	5.0	1.5	0 NZ
Carbon disulfide	ND	5.0	1.0	v U
2-Butanone	ND	5.0	1.9	u NZ
Vinyl acetate	ND	5.0	1.0	u U
4-Methyl-2-pentanone	ND	5.0	1.0	n N
2-Hexanone	ND	5.0	1.0	u U=Z
Bromochloromethane	ND	2.5	0.70	v U
	Chloroethane 1,1-Dichloroethene trans-1,2-Dichloroethene Trichloroethene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Methyl tert butyl ether p/m-Xylene o-Xylene Xylenes, Total cls-1,2-Dichloroethene 1,2-Dichloroethene 1,2-Trichloropropane Acrylonitrile Styrene Dichlorodifluoromethane Acetone Carbon disulfide 2-Butanone Vinyl acetate 4-Methyl-2-pentanone 2-Hexanone	Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND p/m-Xylene ND c-xylene ND Xylenes, Total ND Cis-1,2-Dichloroethene ND 1,2-Dichloroethene ND 1,2-Dichloroethene ND Styrene ND Acrylonitrile ND Carbon disulfide ND Carbon disulfide ND Vinyl acetate ND L-Hexanone ND Bromochloromethane ND Bromochloromethane ND RD RD RD RD RD RD RD RD RD	Parameter Results RL Chloroethane ND 2.5 1,1-Dichloroethene ND 0.50 trans-1,2-Dichloroethene ND 2.5 Trichloroethene ND 0.50 1,2-Dichlorobenzene ND 2.5 1,3-Dichlorobenzene ND 2.5 Methyl tert butyl ether ND 2.5 p/m-Xylene ND 2.5 o-Xylene ND 2.5 Xylenes, Total ND 2.5 Xylenes, Total ND 2.5 cls-1,2-Dichloroethene ND 2.5 1,2-Dichloroethene, Total ND 2.5 Dibromornethane ND 5.0 1,2,3-Trichloropropane ND 5.0 Acrylonitrile ND 5.0 Acetone ND 5.0 Carbon disulfide ND 5.0 Vinyl acetate ND 5.0 4-Methyl-2-pentanone ND 5.0 2-Hexanone ND	Parameter Results RL MDL Chiorcethane ND 2.5 0.70 1,1-Dichloroethene ND 0.50 0.17 trans-1,2-Dichloroethene ND 2.5 0.70 Trichloroethene ND 0.50 0.18 1,2-Dichlorobenzene ND 2.5 0.70 1,3-Dichlorobenzene ND 2.5 0.70 1,4-Dichlorobenzene ND 2.5 0.70 Methyl tert butyl ether ND 2.5 0.70 p/m-Xylene ND 2.5 0.70 Xylenes, Total ND 2.5 0.70 Xylenes, Total ND 2.5 0.70 Cls-1,2-Dichloroethene ND 2.5 0.70 1,2-Dichloroethene, Total ND 2.5 0.70 Dibromornethane ND 5.0 1.0 1,2,3-Trichloropropane ND 5.0 1.5 Actors ND 5.0 1.0 Actors ND



Client : P. W. Grosser

Project Name : FORMER PENETREX PROCESSING

Lab ID : L2314139-10 Client ID : MW-9D

Sample Location : 1 SHORE RD, GLENWOOD LANDING, NY

Sample Matrix : WATER
Analytical Method : 1,8260D
Lab File ID : V05230321A21

Sample Amount : 10 ml Level : LOW Extract Volume (MeOH) : N/A Lab Number : L2314139
Project Number : PEN2301
Date Collected : 03/16/23 09:35

Date Received : 03/17/23 Date Analyzed : 03/21/23 14:42

Dilution Factor : 1
Analyst : LAC
Instrument ID : VOA105
GC Column : RTX-502.2

%Solids : N/A Injection Volume : N/A

		ug/L		
Parameter	Results	RL	MDL	Qualifier
				, ,
2,2-Dichloropropane	ND	2.5	0.70	· V
1,2-Dibromoethane	ND	2.0	0.65	u (
1,3-Dichloroptopane	ND 	2.5	0.70	
1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
Bromobenzene	ND	2.5	0.70	Ų
n-Butylbenzene	ND	2.5	0.70	U
sec-Butylbenzene	ND	2.5	0.70	U
tert-Butylbenzene	ND	2.5	0.70	U
o-Chlorotoluene	ND	2.5	0.70	u
p-Chlorotoluene	ND	2.5	0.70	u V
1,2-Dibromo-3-chloropropane	ND	2.5	0.70	n N.Z
Hexachlorobutadlene	ND	2.5	0.70	v l/
Isopropylbenzene	ND	2.5	0.70	u
p-lsopropyltaluene	ND	2.5	0.70	U
Naphthalene	ND	2.5	0.70	U
n-Propylbenzene	ND	2.5	0.70	U
1,2,3-Trichlorobenzene	ND	2.5	0.70	U
1,2,4-Trichlorobenzene	ND	2.5	0.70	U
1,3,5-Trimethylbenzene	ND	2.5	0.70	U
1,2,4-Trimethylbenzene	ND	2.5	0.70	U
1,4-Dioxane	ND	250	61.	U UT
p-Diethylbenzene	ND	2.0	0.70	u //
p-Ethyltoluene	ND	2.0	0.70	U
1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
Ethyl ether	ND	2.5	0.70	υ ν
	2,2-Dichloropropane 1,2-Dibromoethane 1,3-Dichloropropane 1,1,1,2-Tetrachloroethane Bromobenzene n-Butylbenzene sec-Butylbenzene tert-Butylbenzene o-Chlorotoluene p-Chlorotoluene 1,2-Dibromo-3-chloropropane Hexachlorobutadlene Isopropylbenzene p-Isopropyltoluene Naphthalene n-Propylbenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,4-Dioxane p-Diethylbenzene p-Ethyltoluene 1,2,4,5-Tetramethylbenzene	2,2-Dichloropropane ND 1,2-Dibromoethane ND 1,3-Dichloropropane ND 1,1,1,2-Tetrachloroethane ND Bromobenzene ND n-Butylbenzene ND sec-Butyfbenzene ND tetr-Butylbenzene ND c-Chlorotoluene ND p-Chlorotoluene ND 1,2-Dibromo-3-chloropropane ND Hexachlorobutadlene ND lsopropylbenzene ND p-Isopropyttoluene ND ND Naphthalene ND 1,2,3-Trichlorobenzene ND 1,2,4-Trimethylbenzene ND	Parameter Results RL 2,2-Dichloropropane ND 2.5 1,2-Dibromoethane ND 2.0 1,3-Dichloropropane ND 2.5 1,1,1,2-Tetrachloroethane ND 2.5 Bromobenzene ND 2.5 n-Butylbenzene ND 2.5 sec-Butylbenzene ND 2.5 et-f-Butylbenzene ND 2.5 o-Chlorotoluene ND 2.5 p-Chlorotoluene ND 2.5 p-Chlorotoluene ND 2.5 Hexachlorobutadlene ND 2.5 Isopropylbenzene ND 2.5 p-Isopropylbenzene ND 2.5 Naphthalene ND 2.5 n-Propylbenzene ND 2.5 n-Propylbenzene ND 2.5 1,2,4-Trichlorobenzene ND 2.5 1,2,4-Trichlorobenzene ND 2.5 1,4-Dioxane ND 2.5 1,4-Dioxane ND	Parameter Results RL MDL 2,2-Dichloropropane ND 2.5 0.70 1,2-Dibromoethane ND 2.0 0.65 1,3-Dichloropropane ND 2.5 0.70 1,1,1,2-Tetrachloroethane ND 2.5 0.70 Bromobenzene ND 2.5 0.70 n-Butylbenzene ND 2.5 0.70 sec-Butyfbenzene ND 2.5 0.70 tert-Butylbenzene ND 2.5 0.70 o-Chlorotoluene ND 2.5 0.70 p-Chlorotoluene ND 2.5 0.70 1,2-Dibromo-3-chloropropane ND 2.5 0.70 Hexachlorobutadlene ND 2.5 0.70 Hexachlorobutadlene ND 2.5 0.70 p-Isopropytloluene ND 2.5 0.70 n-Propylbenzene ND 2.5 0.70 n-Propylbenzene ND 2.5 0.70 n-Propylbenzene



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Client : P. W. Grosser Lab Number : L2314139
Project Name : FORMER PENETREX PROCESSING Project Number : PEN2301
Lab ID Date Collected : 03/16/23 0

 Lab ID
 : L2314139-10
 Date Collected
 : 03/16/23 09:35

 Client ID
 : MW-9D
 Date Received
 : 03/17/23

 Sample Location
 : 1 SHORE RD, GLENWOOD LANDING, NY
 Date Analyzed
 : 03/21/23 14:42

Dilution Factor : 1 Sample Matrix : WATER Analytical Method Analyst : LAC : 1,8260D Instrument ID : VOA105 Lab File ID : V05230321A21 GC Column Sample Amount : RTX-502.2 : 10 ml Level : LOW %Solids : N/A

Extract Volume (MeOH): N/A Injection Volume: N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
	Incompletely					******
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	u UZ	
the control of the co	S. C. C. S.	with the second of the second of			the state of the s	^



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: P. W. Grosser Client

: FORMER PENETREX PROCESSING Project Name

Lab ID : L2314139-12 Cilent ID : DUP001

Sample Location : 1 SHORE RD, GLENWOOD LANDING, NY

Sample Matrix : WATER Analytical Method : 1,8260D : V05230321A23 Lab File ID

Sample Amount : 10 ml Level : LOW Extract Volume (MeOH): N/A

: L2314139 Lab Number Project Number : PEN2301 Date Collected : 03/16/23 00:00

Date Received : 03/17/23 Date Analyzed : 03/21/23 15:29

Dilution Factor : 1 Analyst : LAC Instrument ID : VOA105 GC Column : RTX-502.2

%Solids : N/A Injection Volume: N/A

CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	u U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	u
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0,50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	υ _,
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	υ √
127-18 - 4	Tetrachloroethene	0.34	0.50	0.18	2 Z
108-90-7	Chlorobenzene	ND	2.5	0.70	u U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	υ (
107-06-2	1,2-Dichloroethaпе	ND	0.50	0.13	u
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75 - 6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	u 🗸
75-25-2	Bromoform	ND	2.0	0.65	u 1/12
79-34-5	1,1,2,2-Tetrachlorgethane	ND	0.50	0.17	u [/
71-43-2	Вепгеле	ND	0.50	0.16	<u> </u>
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	u 🗸
74-83-9	Bromomethane	ND	2.5	0.70	∪ <i>V</i> -Z
75-01-4	Vinyl chloride	ND	1.0	0.07	U [/



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Client : P. W. Grosser

Project Name : FORMER PENETREX PROCESSING

Lab ID : L2314139-12 Client ID : DUP001

Sample Location : 1 SHORE RD, GLENWOOD LANDING, NY

Sample Matrix : WATER
Analytical Method : 1,8260D
Lab File ID : V05230321A23

Sample Amount : 10 ml Level : LOW Extract Volume (MeOH) : N/A Lab Number : L2314139
Project Number : PEN2301
Pate Collected : 03/16/23 00:5

Date Collected : 03/16/23 00:00 Date Received : 03/17/23

Date Analyzed : 03/21/23 15:29

Dilution Factor : 1
Analyst : LAC
Instrument ID : VOA105
GC Column : RTX-502.2

%Solids : N/A Injection Volume : N/A

			ug/L		
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.5	0.70	V
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	u
79-01-6	Trichioroethene	ND	0.50	0.18	U L
95-50-1	1,2-Dichlorobenzene	· ND	2.5	0.70	υ
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	u
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	u
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	u
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	u
540-59-0	1,2-Dichloroelhena, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ДИ	5.0	1.0	u
96-18-4	1,2,3-Trichtoropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	u
100-42-5	Styrene	ND	2.5	0.70	u V
75-71-8	Dichlorodiffuoromethane	ND	5.0	1.0	ZN u
67-64-1	Acetone	ND	5.0	1.5	n NZ
75-15-0	Carbon disulfide	ND	5.0	1.0	υU
78-93-3	2-Butanone	ND	5.0	1.9	· 14
108-05-4	Vinyl acetate	ND	5.0	1.0	u <i>U</i>
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	∪ /
591-78-6	2-Hexanone	ND	5.0	1.0	n 172
74-97-5	Bromochloromethane	ND	2.5	0.70	υ [/]
74-97-5	Bromochloromethane	ND	2.5	0.70	· N



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Client : P. W. Grosser

Project Name : FORMER PENETREX PROCESSING

Lab ID : L2314139-12 Client ID : DUP001

Sample Location : 1 SHORE RD, GLENWOOD LANDING, NY

Sample Matrix : WATER
Analytical Method : 1,8260D
Lab File ID : V05230321A23

Sample Amount : 10 ml Level : LOW Extract Volume (MeOH) : N/A Lab Number : L2314139
Project Number : PEN2301
Date Collected : 03/16/23 00:00

Date Received : 03/17/23 Date Analyzed : 03/21/23 15:29

Dilution Factor ; 1
Analyst : LAC
Instrument ID : VOA105
GC Column : RTX-502.2

%Solids : N/A Injection Volume : N/A

		ug/L		
Parameter	Results	RL	MDL	Qualifier
2,2-Dichloropropane	ND	2.5	0.70	u U
1,2-Dibromoethane	ND	2.0	0.65	U (
1,3-Dichloropropane	ND	2.5	0.70	U
1,1,1,2-Tetrachloroethane	ND	2.5	0.70	u \
Bromobenzene	ND	2.5	0.70	v
n-Butylbenzene	ND	2.5	0.70	U
sec-Butylbenzene	· ND	2.5	0.70	
tert-Butylbenzene	ND	2.5	0.70	U
o-Chlorotoluene	ND	2.5	0.70	U
p-Chlorotoluene	ND	2.5	0.70	υ √
1,2-Dibromo-3-chloropropane	ND	2.5	0.70	u VZ
Hexachlorobutadiene	ND	2.5	0.70	u U
Isopropylbenzene	ND	2.5	0.70	u į
p-isopropyltaluene	ND	2.5	0.70	U
Naphthalene	ND	2.5	0.70	U
n-Propytoenzene	ND	2.5	0.70	v
1,2,3-Trichlorobenzene	, ND	2.5	0.70	
1,2,4-Trichlorobenzene	ND	2.5	0.70	u
1,3,5-Trimethylbenzene	ND	2.5	0.70	U
1,2,4-Trimethylbenzene	ND	2.5	0.70	υ √
1,4-Dioxane	ND	250	61.	ZV u
p-Diethylbenzene	ND	2.0	0.70	u U
p-Ethyltoluene	ND	2.0	0.70	U
1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	υ
Ethyl ether	ND	2.5	0.70	u h
	2,2-Dichloropropane 1,2-Dibromoethane 1,3-Dichloropropane 1,1,1,2-Tetrachloroethane Bromobenzene n-Butylbenzene sec-Butylbenzene c-Chlorotoluene p-Chlorotoluene 1,2-Dibromo-3-chloropropane Hexachlorobutadiene Isopropylbenzene p-isopropyltoluene Naphthalene n-Propylbenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,4-Dioxane p-Diethylbenzene p-Ethyltoluene 1,2,4,5-Tetramethylbenzene	2,2-Dichloropropane ND 1,2-Dibromoethane ND 1,3-Dichloropropane ND 1,1,1,2-Tetrachloroethane ND Bromobenzene ND n-Butylbenzene ND sec-Butylbenzene ND etrt-Butylbenzene ND c-Chlorotoluene ND p-Chlorotoluene ND 1,2-Dibromo-3-chloropropane ND Hexachlorobutadiene ND lsopropylbenzene ND ND Naphthalene ND Naphthalene ND 1,2,3-Trichlorobenzene ND 1,2,4-Trimethylbenzene ND	Parameter Results RL 2,2-Dichloropropane ND 2.5 1,2-Dibromoethane ND 2.0 1,3-Dichloropropane ND 2.5 1,1,1,2-Tetrachloroethane ND 2.5 Bromobenzene ND 2.5 n-Butylbenzene ND 2.5 sec-Butylbenzene ND 2.5 sec-Butylbenzene ND 2.5 o-Chlorotoluene ND 2.5 p-Chlorotoluene ND 2.5 p-Chlorotoluene ND 2.5 Hexachlorobutadiene ND 2.5 Hexachlorobutadiene ND 2.5 p-Isopropylbenzene ND 2.5 Naphthalene ND 2.5 n-Propylbenzene ND 2.5 1,2,4-Trichlorobenzene ND 2.5 1,2,4-Trimethylbenzene ND 2.5 1,4-Dloxane ND 2.5 1,4-Dloxane ND 2.0 p-Ethyltoluene ND	Parameter Results RL MDL 2,2-Dichloropropane ND 2.5 0.70 1,2-Dibromoethane ND 2.0 0.65 1,3-Dichloropropane ND 2.5 0.70 1,1,1,2-Tetrachloroethane ND 2.5 0.70 Bromobenzene ND 2.5 0.70 n-Butylbenzene ND 2.5 0.70 sec-Butylbenzene ND 2.5 0.70 ec-Butylbenzene ND 2.5 0.70 bert-Butylbenzene ND 2.5 0.70 c-Chlorotoluene ND 2.5 0.70 p-Chlorotoluene ND 2.5 0.70 Hexachlorobutadiene ND 2.5 0.70 Hexachlorobutadiene ND 2.5 0.70 p-Isopropyltoluene ND 2.5 0.70 n-Propylbenzene ND 2.5 0.70 n-Propylbenzene ND 2.5 0.70 1,2,3-Trichlorobenzene N



5/8/29

Client : P. W. Grosser

Project Name : FORMER PENETREX PROCESSING Lab ID : L2314139-12

Client ID : DUP001

Sample Location : 1 SHORE RD, GLENWOOD LANDING, NY
Sample Matrix : WATER

Analytical Method : 1,8260D Lab File ID : V05230321A23 Sample Amount : 10 ml

Level : LOW Extract Volume (MeOH) : N/A

Lab Number : L2314139
Project Number : PEN2301

Date Collected : 03/16/23 00:00

Date Received : 03/17/23 Date Analyzed : 03/21/23 15:29

Dilution Factor : 1
Analyst : LAC
Instrument ID : VOA105
GC Column : RTX-502.2

%Solids : N/A Injection Volume : N/A

			ug/L		
CAS NO.	Parameter	Resul	lts RL	MDL	Qualifier

110-57-6	trans-1,4-Dichloro-2-butene	· ND	2.5	0.70	u 147
	iman in the second manual control of the second manual and the second of	and the second s			



SDG Labo MET The	DC #: 56504A1a VALIDATION COMPLETENESS WORKSHEET Date: 5 5 Category B Page: of Page: o						
	Validation Area			Comme	nts		
1.	Sample receipt/Technical holding times	AIA					
11.	GC/MS Instrument performance check	\overline{V}					
111.	Initial calibration/ICV	5W/5W	0/0 850	± 20, 12	1cy = 30		
īv	. Continuing calibration	50	,	CW =			
V.		Α				•	
VI.	Field blanks	22	TB = T	RIP BLANK			
VII	. Surrogate spikes	7			•	•	
VIII	l. Matrix spike/Matrix spike duplicates	2	رک				
ΙX	Laboratory control samples	7	Las 1	P			
X.	Field duplicates	52	0 = 1.	2			
XI.	Internal standards	4	•				
XII	. Target analyte quantitation		Resulto	= PL > MO	1 = Jaux		
XIII	. Target analyte identification	$\overline{\Delta}$	•				
עוא	Overall assessment of data	4					
Note:	N = Not provided/applicable R = Ri	No compounds nsate Field blank	detected	D = Duplicate TB = Trip blank EB = Equipment blank	SB=Source b OTHER:	lank	
	Client ID			Lab ID	Matrix	Date	
1	MW-9D			L2314139-10	Water	03/16/23	
2	DUP001			L2314139-12	Water	03/16/23	
3							
4_							
5							
6							
7							
8							
9_							
10_							
Votes			<u> </u>	1	<u> </u>		
\square	WG1757204-5 NOA 105	3 21	23				
\square							

LDC#: 56904Ala

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2 Reviewer: FT

Method: Volatiles (EPA SW 846 Method 8260))

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times	165	110	1474	1 111411130 0011111111
Were all technical holding times met?				
Was cooler temperature criteria met?				
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?				
Were all samples analyzed within the 12 hour clock criteria?				
Illa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	1			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	./	Ļ		
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?		V		
Were all percent relative standard deviations (%RSD) ≤ 98%/15 % and relative response factors (RRF) ≥ 0.05?	V			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) ≤ 20%?	<u></u>	<u>/</u>		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	1			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	v			
Were all percent differences (%D) \leq 20% and relative response factors (RRF) \geq 0.05?		/		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?				
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	/			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.	_	V		
VI. Field blanks				
Were field blanks were identified in this SDG?	V			
Were target analytes detected in the field blanks?		V		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?				

LDC #: 565044 \ VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: FT

Validation Area	Yes	No	NA	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?				
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?				
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch?				<u> </u>
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/	-		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?				
Were target analytes detected in the field duplicates?	\setminus	-		
XI. Internal standards	_			
Were internal standard area counts within -50% to +100% of the associated calibration standard?		<u>. </u>		
Were retention times within ± 30 seconds of the associated calibration standard?				
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?				
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?				
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?			•	
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
Were manual integrations reviewed and found acceptable?	/			
Did the laboratory provide before and after integration printouts?	_		/	
XIV. System performance				
System performance was found to be acceptable.				
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.				

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethana	BB. 1,1,2,2-Tetrachlorcethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrije	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freen 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-isopropyltoluena	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freen 114
I. 1,1-Dichloroethane	it. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	i1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. lodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Diffuoroethane	O1. 3-Methylpentane
P. Bromodich/oromethane	PP. Bromochloromethane	PPP. trans-1,2-Dich/oroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ, 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochioromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU, 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY, n-Propylbenzene	YYY, tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1, 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC#: 56904A/a

VALIDATION FINDINGS WORKSHEET **Initial Calibration**

Page:_	<u></u>	/
Reviewer:	FT	

METHOD: GC/MS BNA (EPA SW 846 Method 8270 4)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N N/A Did the laboratory conduct an acceptable 5 point calibration prior to sample analysis?

N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?

WN N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?

Y N N/A Did the initial calibration meet the acceptance criteria?

Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤ 15/30% / 15% / 20% and ≥0.05 RRF?

#	Date	Standard ID	Compound	Finding %RSD (Limit: <)	Finding RRF (Limit: >0.05)	RRF >0.05) Associated Samples Qualifications	
		ICAL - MSIOS	нинн		0.00 132 (70,0	s) All	J/4J/A ND
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	,						
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						• · · · · · · · · · · · · · · · · · · ·	
		- "				·- · · · · · · · · · · · · · · · · · ·	
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LDC#: 56504 A/a

VALIDATION FINDINGS WORKSHEET Initial Calibration Verification

Page:	of
Reviewer:	FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 ρ)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

YN N/A

Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y/N N/A

Were all %D within the validation criteria of ≤20 %D? 20 %

 	ZIN/A V	vere all %D within the v	andation oritoria or			
#		Standard ID	Compound	Finding %D (Limit: <20.0%/ 30%)	Associated Samples	Qualifications
	2/8/23	104- MS 195	В	30.8	All	JUJ/A (ND)
	0659			-		
		<u> </u>	· · · · · · ·			
	L 					
			-			
	!					·
		·				
		<u> </u>				
						· · · · · · · · · · · · · · · · · · ·
	-		<u> </u>			<u> </u>
				·		· ·

LDC #: 56504A/a

VALIDATION FINDINGS WORKSHEET <u>Continuing Calibration</u>

Page:_	of	_
Reviewer:	FT	

METHOD: GC/MS VOA (EPA SW 846 Method 8260 /

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?

Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF?

	<u>/ N/A</u> v	vere all %D and RRFS	Vitami tio Tanadioi o	Finding %D	Finding RRF		
#		Standard ID	Compound	(Limit: <20.0%)	(Limit: >0.05)	Associated Samples	Qualifications
	3 21 83	een- voa 105	77	24.2		<u></u>	J/UJ/A au NO
İ	0721		В	21.5			
			É	26.7			
			W	24.3			
	-		- 	22.4			
			ММ	28.6			
			НННН		0.00122 (70.0	00S)	
			7-	25.5		7	
			X	24.3			V
				_			
	Ī						
	_						
						, i	

LDC#: 56 904Ala

VALIDATION FINDINGS WORKSHEET Field Duplicates

Page:_1_	_of_	1	
Reviewer:	F	_	

METHOD: GCMS VOA (EPA V N N/A Were field do V N N/A Were target	Method 8260 (2) uplicate pairs identified in to	this SDG? he field duplicate pairs?		
	Concentration	= ppp	QUAL	
Compound		2	RPD (5 %)	QUAL
44	0.36	0.34	Ψ	
Compound	Concentration	on ()	RPD (≤ %)	QUAL
Compound	Concentrati	on ()	RPD (≤ %)	QUAL
,				
Compound	Concentrati	on ()	RPD (s %)	QUAL
	-			
	<u> </u>	<u> </u>		

LDC#: 56504A/a

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page:_	1	_of_	1	
eviewer:		FT		

METHOD: GC/MS VOA (EPA SW 846 Method 8260 D)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the analytes identified below using the following calculations:

 $RRF = (A_v)(C_k)/(A_{ik})(C_v)$

average RRF = sum of the RRFs/number of standards %RSD = 100 * (S/X)

 A_x = Area of compound,

 C_{\star} = Concentration of compound,

S = Standard deviation of the RRFs

A_{is} = Area of associated internal standard C_b = Concentration of internal standard

X = Mean of the RRFs

	•				Reported	Recalc	Reported	Recalc	Reported	Recalc
#	Standard ID	Calibration Date	Compound (Reference Internal Standa	ard)	RRF (ノン std)	RRF (/ U std)	Average RRF (initial)	Average RRF (initial)	%R\$D	%R\$D
1	ICAL VOA 105	92/08/23	C (1st internal standa	ard)	0.246	0.246	0.247	0.247	10.49	10.49
	VOA 105	, [-	AA (2nd internal standa	ard)	0.351	0.35/	0.358	0.35B	8.28	828
			BB (3rd internal standar	.rd)	0.442	0.442	0.485	0.485	6.50	6.50
			(4t <u>h intern</u> al sta <u>nda</u> r	rd)			<u></u>			
2			(1st internal standa	ard)						
			(2nd internal standa	ard)						
			(3rd internal standar	rd)						
<u></u>			(4th internal standar	rd)						
3			(1st internal standa	ard)		<u> </u>				
			(2nd internal standa	ard)						
	:		(3rd internal standar	rd)	<u> </u>					
			(4th internal standar	rd)						
4			(1st internal standa	ard)						
			(2nd internal standa	ırd)				.,		
]	(3rd internal standar	rd)						
			(4th internal standar	rd)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC#: 56504A/a

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

Page:	1_of_1_
Reviewer:	FT_
2nd reviewer:	

METHOD: GC/MS'VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the analytes identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found

SS = Surrogate Spiked

Sampl	e ID:	14

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	10.0	10.320	F7 104 103	103	0
1,2-Dichloroethane-d4	,	10.408	104	104	
Toluene-d8		9.816	98	98	
Bromofluorobenzene)	9.312	93	93	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8				<u> </u>	
Bromofluorobenzene	_			<u> </u>	_l

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene				•	ì

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8	<u> </u>			<u> </u>	
Bromofluorobenzene					1

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4		<u> </u>			
Toluene-d8					
Bromofluorobenzene	<u>.</u>	1			}

LDC#: 56504 Ala

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page: 1_of 1_ Reviewer: FT

METHOD: GC/MS VOA (EPA Method 8260 D)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the analytes identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration

SA = Spike added

RPD = I LCSC - LCSDC | * 2/(LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: WG1757 204-LCG

Compound	Ad	pike dded 19 L)	Conc	d Sample entration	<u> </u>	CS Recovery		CSD Recovery		RPD
	LCS	LCSD	rcs	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10	10	11	11	110	טון	110	טון	U	D
Trichloroethene			10	9.9	100	100	প্প	99	1	
Benzene			10	9.8	100	lon	98	٩x	2	2
Toluene			99	Ø	99	99	100	100	1)
Chlorobenzene			9.8	99	98	98	49	99		1

Comments: Refer to Laboratory	Control Sample findings worksheet for list of	qualifications and associated samples w	hen reported results do not agree within 10.0%
of the recalculated results.			
		•	

LDC#: 56504A/a

%S

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page:_	1	_of_	1	
Reviewer:		FΤ		

METHOD:	GC/MS VOA (EPA SW 846 Method 8260)	
/Y N N/A	GC/MS VOA (EPA SW 846 Method 8260) Were all reported results recalculated a	and

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target analytes agree within 10.0% of the reported results?

Example:

 $(A_*)(I_*)(DF)$ Concentration = (A_s)(RRF)(V_o)(%S) Area of the characteristic ion (EICP) for the compound to be measured Area of the characteristic ion (EICP) for the specific internal standard Amount of internal standard added in nanograms (ng) RRF Relative response factor of the calibration standard. ٧, Volume or weight of sample pruged in milliliters (ml) or grams (g). Dilution factor. Df

Percent solids, applicable to soils and solid matrices

Sample I.D. # 2, _____

Conc. = (3982)(10.0) (32233)(0.358)

= 0.345 mg/L

	only.	able to soils and solid matrices			
#	Sample ID	Compound	Reported Concentration (ug) L	Calculated Concentration (ug	Qualification
	42	40	0.34	0.345	
-		•	·		
				<u> </u>	
					<u> </u>
					-
		<u> </u>	_		
					
 -					
$\neg \uparrow$,		

PEN2301, NYSDEC

Site: PEN2301

Laboratory: Alpha Analytical Inc., Westborough, MA

Report No.: L2314229

Reviewer: Felomina Tanguilig and Pei Geng/Laboratory Data Consultants for P.W.

Grosser Consulting

Date: May 8, 2023

Samples Reviewed and Evaluation Summary

FIELD ID LAB ID FRACTIONS VALIDATED

SV005 L2314229-06 VOC

Associated QC Samples(s):

Field/Trip Blanks: None Associated Field Duplicate pair: None Associated

The above-listed air sample was collected on March 17, 2023 and was analyzed for volatile organic compounds (VOC) by method TO-15. The data validation was performed in accordance with the USEPA Region 2 Analysis of Volatile Organic Compounds in Air Contained Canisters, SOP HW-31, Revision 6 (September 2016) and the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA 540-R-20-005 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All criteria were met.

Blanks

Contamination was not detected in the method blanks.

All canisters were cleaned as required by the method. The laboratory indicated that canister certification was performed by batch. No volatile contaminants were found in the representative canister blank.

A field blank was not associated with this sample set. Validation action was not required on this basis.

Laboratory Duplicate Results

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Laboratory Job L2314229, Organics, Page 2 of 4

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Quantitation Limits and Data Assessment

No results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analysis.

Dilutions were not required for VOC analysis.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

- U The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.
- UJ The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.
- JN The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.
- R Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Results Summary Form 1 Volatile Organics in Air

Cllent : P. W. Grosser

: FORMER PENETREX PROCESSING **Project Name**

Lab ID : L2314229-06 Client ID : SV005

: 1 SHORE RD GLENWOOD LANDING, NY Sample Location

: SOIL_VAPOR Sample Matrix Analytical Method : 48,TO-15 Lab File ID : R1732571 Sample Amount : 250 ml

Lab Number Project Number : PEN2301

: L2314229

Date Collected : 03/17/23 08:57

Date Received : 03/17/23 Date Analyzed : 03/30/23 05:38

Dilution Factor : 1 Analyst : RAY Instrument ID : AIRLAB17 GC Column : RTX-1

Camp	pie Amount : 200 mi		ppbV			ug/m3		•
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
······································								•
5-71-8	Dichlorodifluoromethane	0.457	0.200		2.26	0.989		
4-87-3	Chloromethane	1.30	0.200		2.68	0.413	44	
6-14-2	Freon-114	ND	0.200		ND	1.40		u U
5-01-4	Vinyl chloride	ND	0.200		ND	0.511	-	U [
06-99-0	1,3-Butadiene	ND	0.200		ND	0.442	_	U
4-83-9	Bromomethane	ND	0.200		ND	0.777	-	U
5-00-3	Chloroethane	ND	0.200		ND	0.528		u ∜
4-17-5	Ethanol	11.5	5.00		21.7	9.42		
93-60-2	Vinyl bromide	ND	0.200		ND	0.874		u U
7-64-1	Acetone	5.93	1.00	_	14.1	2.38		
5-69-4	Trichlorofluoromethane	0.203	0.200		1.14	1.12		
7-63-0	Isopropanol	16.0	0.500		39.3	1.23		
5-35-4	1,1-Dichloroethene	ND	0.200	7-	ND	0.793	••	u U
5-65-0	Tertiary butyl Alcohol	ND	0.500		ND	1.52		υ [
5-09-2	Methylene chloride	ND	0.500	••	ND	1.74	-	U
07-05-1	3-Chloropropene	ND	0.200		ND	0.626		U
'5 - 15-0	Carbon disulfide	ND	0.200		ND	0.623		U
'6-13-1	Freon-113	ND	0.200		ND	1.53		U
56-60-5	trans-1,2-Dichloroethene	ND	0.200	4.	ND	0.793		U
5-34-3	1,1-Dichloroethane	ND	0.200	_	ND	0.809	_	U /
634-D4 - 4	Methyl tert butyl ether	ND	0.200	••	ND	0.721		υ V
8-93-3	2-Butanone	8.64	0.500		25.5	1.47	_	
56-59-2	cls-1,2-Dichloroethene	ND	0.200		ND	0.793		u U
41-78-6	Ethyl Acetate	ND	0.500		ND	1.80		u
7-66-3	Chloroform	ND	0.200		ND	0.977		U
09-99-9	Tetrahydrofuran	ND	0.500	_	ND	1.47		U),



5/3/2> 2

Results Summary Form 1 Volatile Organics in Air

Client : P. W. Grosser

Project Name : FORMER PENETREX PROCESSING

Lab ID : L2314229-06

Client ID : SV005

Sample Location : 1 SHORE RD GLENWOOD LANDING, NY

Sample Matrix : SOIL_VAPOR
Analytical Method : 48,TO-15
Lab File ID : R1732571
Sample Amount : 250 ml

Lab Number : L2314229 Project Number : PEN2301

Date Collected : 03/17/23 08:57

Date Received : 03/17/23

Date Analyzed : 03/30/23 05:38 Dilution Factor : 1

Dilution Factor : 1
Analyst : RAY
Instrument ID : AIRLAB17
GC Column : RTX-1

Gample Amount : 200 mi			-nhW		ug/m3			•
CAS NO.	Parameter	Results	ppbV RL	MDL	Results	RL	MDL	Qualifier
								······································
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809		u U
110-54-3	n-Hexane	0.389	0.200	••	1.37	0.705	_	
71-55-6	1,1,1-Trichloroethane	ND	0.200		ND	1.09		u U
71-43-2	Benzene	0.322	0.200		1,03	0.639		1
56-23-5	Carbon tetrachloride	ND	0.200		ND	1.26		u U
110-82-7	Cyclohexane	ND	0.200		ND	0.688		U
78-87-5	1,2-Dichloropropane	ND	0.200		ND	0.924		U
75-27-4	Bromodichloromethane	ND	0.200		ND	1.34		บ
123-91-1	1,4-Dioxane	ND	0.200	44	ND	0.721		U
79-01- 6	Trichloroethene	ND	0.200	••	ND	1.07		u /
540-84-1	2,2,4-Trimethylpentane	ND	0.200	_	ND	0.934	-	υ t /
142-82-5	Heptane	0.292	0.200		1.20	0.820		
10061-01-5	cis-1,3-Dichloropropeле	ND	0.200	••	ND	0.908	-	v U
108-10-1	4-Methyl-2-pentanone	ND	0.500		ND	2.05		U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	_	ND	0.908		U
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09		u V
108-88-3	Toluene	10.3	0.200	-	38.8	0.754		
591-78-6	2-Hexanone	1.09	0.200	••	4.47	0.820		
124-48-1	Dibromochloromethane	ND	0.200		ND	1.70		u U
106-93-4	1,2-Dibromoethane	ND	0.200	••	ND	1.54		u V
127-18-4	Tetrachloroethene	0.251	0.200		1.70	1.36		
108-90-7	Chlorobenzene	ND	0.200	-	ND	0.921		u V
100-41-4	Ethylbenzene	0.362	0.200		1.57	0.869		
179601-23-1	p/m-Xylene	1.46	0.400		6.34	1.74		
75-25-2	Bromoform	ND	0.200		ND	2.07		u V
100-42-5	Slyrene	ND	0.200		ND	0.852		U 1



5/3/22 Q

Results Summary Form 1 Volatile Organics in Air

Client : P. W. Grosser

Project Name : FORMER PENETREX PROCESSING

Lab ID : L2314229-06

Client ID : SV005

: 1 SHORE RD GLENWOOD LANDING, NY Sample Location

Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R1732571 : 250 ml Sample Amount

Lab Number : L2314229

Project Number : PEN2301 Date Collected : 03/17/23 08:57

Date Received : 03/17/23

Date Analyzed : 03/30/23 05:38

Dilution Factor : 1 Analyst : RAY Instrument ID : AIRLAB17 GC Column : RTX-1

							•		
			ppbV			ug/m3			
CAS NO.	Parameter	Results	RL.	MDL	Results	RL	MDL	Qualifier	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	_	ND	1.37		υÜ	
95-47-6	o-Xylene	0.477	0.200		2.07	0.869		······ ** ** ** ** ** ** ** ** ** ** **	
622-96-8	4-Ethyltoluene	ND	0.200		ND	0.983		u U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200		ND	0.983	-	U	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200		ND	0.983		U	
100-44-7	Benzyl chloride	ND	0.200		ND	1.04		U	
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20	-	u	
106-46-7	1,4-Dichlorobenzene	ND	0.200		ND	1.20		u	
95-50-1	1,2-Dichlorobenzene	ND	0.200	-	ND	1.20	. 	U	
120-82-1	1,2,4-Trichlorobenzene	ND	0.200		ND	1.48		U	
87-68-3	Hexachlorobutadiene	ND	0.200		ND	2.13		u V	



SDG # _abora	t: 56504B48a VALIDATIO t: L2314229 atory: Alpha Analytical, Inc., Westboroug IOD: GC/MS Volatiles (EPA Method TO	Ca gh, MA	LETENES: itegory B	S WORKSHEET	F	Date: 5 5 Page: 1 of 1 ewer: 9
	amples listed below were reviewed for e tion findings worksheets.	ach of the fo	ollowing valida	ation areas. Validation	findings are note	ed in attached
	Validation Area			Comme	nts	
l.	Sample receipt/Technical holding times	Δ/Δ				
II.	GC/MS Instrument performance check	<u> </u>	,			
III.	Initial calibration/ICV	Δ/Δ	0/0 PSS	1/10/50	· · · · · · · · · · · · · · · · · · ·	
IV.	Continuing calibration	Δ.	•	CW = 31		
V.	Laboratory Blanks	4			batal	
VI.	Field blanks	<i>N</i>			-	
VII.	Surrogate spikes	N				
VIII.	Duplicate sample analysis	A	14009	s DuP		
IX.	Laboratory control samples	A	LOD	•		
X.	Field duplicates	N				
XI.	Internal standards	Δ				
XII.	Target analyte quantitation	7				
XIII.	Target analyte identification	Δ				
XIV.	Leak Check Compounds	N				
χV	Overall assessment of data					
lote:	A = Acceptable ND = I N = Not provided/applicable R = Ri	No compounds insate Field blank	detected	D = Duplicate TB = Trip blank EB = Equipment blank	SB=Source b OTHER:	lank
	Client ID			Lab ID	Matrix	Date
1 :	SV005			L2314229-06	Air	03/17/23
2			•			•
3						
4						
5						
6						
7						`
8			. =			
9						
lotes:			·		<u> </u>	
- N	191760414-4 3/3	0	<u> </u>			

Page: 1 of 2
Reviewer: FT

Method: Volatiles (EPA Method TO-15)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?				
Was canister pressure criteria met?				<u> </u>
II. GC/MS Instrument performance check	·			
Were the BFB performance results reviewed and found to be within the specified criteria?	_			
Were all samples analyzed within the 24 hour clock criteria?				
Illa. Initial calibration		· · · · <u>-</u>		
Did the laboratory perform a 5 point calibration prior to sample analysis?				
Were all percent relative standard deviations (%RSD) ≤ 30%?				
IIIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after every ICAL for each instrument?				
Were all percent differences (%D) ≤ 30%?				
IV. Continuing calibration			,	
Was a continuing calibration standard analyzed at least once every 24 hours for each instrument?				
Were all percent differences (%D) ≤ 30%?	_			
V. Laboratory Blanks/Canister Blanks				
Was a laboratory blank associated with every sample in this SDG?		-		<u> </u>
Was a laboratory blank analyzed at least once every 24 hours for each matrix and concentration?				
Was there contamination in the laboratory blanks?				
Was a canister blank analyzed for every canister?		-		
Was there contamination in the canister blanks?				· · · · · · · · · · · · · · · · · · ·
VI. Field Blanks			,	
Were field blanks identified in this SDG?			- - -	
Were target compounds detected in the field blanks?				
VII. Surrogate spikes (Optional)				
Were all surrogate percent recoveries (%R) within QC limits?				
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?				
VIII. Laboratory Duplicate	, <u>-</u>		_	
Was a laboratory duplicate analyzed for this SDG?				
Were the relative percent differences (RPD) within the QC limits?				

Page: 2 of 2
Reviewer: FT

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples			•	
Was an LCS analyzed per analytical batch for this SDG?	1			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?				
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		\		
Were target compounds detected in the field duplicates?				
XI. Internal standards				
Were internal standard area counts within \pm 40% from the associated calibration standard?	/			
Were retention times within ± 20.0 seconds from the associated calibration standard?	/			
XII. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?				
Were compound quantitation and RLs adjusted to reflect all sample dilutions applicable to level IV validation?		,		
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?				
Did compound spectra meet specified EPA "Functional Guidelines" criteria?				<u>-</u>
Were chromatogram peaks verified and accounted for?	NO.		V	
XIV. System performance				
System performance was found to be acceptable.		•		
XV. Leak check compounds		•		
Was a leak check compound used to evaluate sample integrity and included in the laboratory analyte list?				
Was the leak check compound detected in the samples? If yes, please see leak check validation findings worksheet.				
XV. Overall assessment of data		_		
Overall assessment of data was found to be acceptable.				

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachioroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B, Bromomethane	88. 1,1,2,2-Tetrachlorcethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chiorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrije	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	lil. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ, Dichlorodifluoromethane	JJJ. 1,2-Dichlarobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. lodomethane	N1. 2-Methylpentane
O. Carbon tetrachioride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1, 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichlaroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Aliyi chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW, Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichlaropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY, tert-Butanol	YYYY, trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chiorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC#: 56504B48a

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page:_	1	_of_	1_	
Reviewer:_	F	-⊤		

METHOD: GC/MS VOA (EPA Method TO-15)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

 $RRF = (A_x)(C_{is})/(A_{is})(C_x)$ average RRF = sum of the RRFs/number of standards %RSD = 100 * (S/X)

 A_s = Area of associated internal standard C_s = Concentration of internal standard

 A_x = Area of compound, C_x = Concentration of compound, S = Standard deviation of the RRFs

X = Mean of the RRFs

				Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	RRF (std) \0	RRF (std)	Average RRF (initial)	Average RRF (initial)	%R\$D	%RSD
1_	ICAL	1/19/23	۵	0,357	0.357	0.3752	0,3752	6.37	6.37
	LABIT	'	√	0.481	0.481	0.5298	0.5298	15.09	15.09
			cc	4.021	4.02]	4.5638	4.5638	16.52	16.52
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3									
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Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56504 BYBa

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page:_	1	_of_	1_
Reviewer:		FT	

METHOD: GC/MS VOA (EPA TO-15)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF

Where: ave. RRF = initial calibration average RRF

 $RRF = (A_x)(C_{is})/(A_{is})(C_x)$

RRF = continuing calibration RRF

A_x = Area of compound, C_y = Concentration of compound, A_{is} = Area of associated internal standard C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ecv	3/29/23	р СГ	0.3752 0.5298 4.5638	0.318 0.49 4283	0.49	0.8 7.5 6.2	0.8 7.5 6.2
2								
3								

Comments: Refer to Continuing Calibration fin-	<u>dings worksheet for list of qualifica</u>	<u>ations and associated samples</u>	<u>s when reported results do</u>	onot agree within 10.0% of the
recalculated results.				

LDC #:

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page: <u>1</u>	of_	1	
Reviewer:	FT		

METHOD: GC/MS VOA (EPA Method TO-15)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration

SA = Spike added

RPD = I LCS - LCSD (* 2/(LCS + LCSD)

LCS = Laboractry control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: WG 1760414 - LC>

Compound	Ad	oike ded ∕o√)	Conce	Sample ntration p 60	Percent I	Recovery	Percent F			I CSD
	TCS //	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
77	10.0	24	9.25	NA	92	92				
4			102		102	102				
C			9.16		92	92				
В			9.64		96	96				
D			11-0		טוו	טוו				
F			41.8		હ્ય	γV				
						-		<u> </u>		
					•··		<u></u>			
<u></u>									<u> </u>	

Comments:	Refer to Laboratory	<u>/ Control Sample fin</u>	<u>dings worksheet f</u>	<u>or list of qualificatio</u>	ns and associated	samples when re	<u>eported results de</u>	o not agree withi	<u>n 10.0%</u>
of the recalci	ulated results.								
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LDC#: 569048480

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page:_	/_of	. 1
Reviewer:_		71

METHOD: GC/GCMS/HPLC/LCMS

D	1	N N/A	Were all reported results recalculated and verified for all level IV samples?
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Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Conce	entratio	n = <u>(A,)(I,)(V,)(DF)(2.0)</u> (A _b)(RRF)(V _o)(V _I)(%S)	Example:
A _x	=	Area of the characteristic ion (EICP) for the compound to be measured	Sample I.D. # 1 ,
\mathbf{A}_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard	, ,
l,	=	Amount of internal standard added in nanograms (ng)	Conc. = 1\267 (10.0)
V _o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).	230141 (0.3752)
V_i	=	Volume of extract injected in microliters (ul)	=
V_{t}	=	Volume of the concentrated extract in microliters (ul)	1.30 ppbV
Df	=	Dilution Factor.	1. 30 // /
%S	=	Percent solids, applicable to soil and solid matrices only.	

2.0	= Factor of 2 to accour	nt for GPC cleanup		<u> </u>	
#	Sample ID	Compound	Reported Concentration ()	Calculated Concentration	Qualification
	#)	Δ	1.30 ppb1	1:30 noby	
╟┈┤			2.68 ug/m3	2.68 lig/m3	
			73 0(-) (1)	3100	
\vdash				<u> </u>	
	ig -	(1.30) (50.49)	2.68	ug) m 3	
	m33	24.45		7	
					
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APPENDIX F



Annual Inspection Checklist

FORMER PENETREX PROCESSING FACILITY
1 SHORE ROAD
GLENWOOD LANDING, NEW YORK

Date/time: March 2, 2023 – 9:00 AM

Inspector (name/organization): <u>Kaitlyn Crosby / P.W. Grosser Consulting, Inc.</u>

Detail the condition of the first-floor concrete slab, make note of any significant penetrations through the concrete slab:

The condition of the slabs are good. No significant penetrations were observed.

Detail the condition of sub-slab depressurization system, including, above grade piping, two blowers, and two pressure alarms:

No damage was observed in the above-grade piping and the two blowers. The pressure readings indicated that the blowers were functioning as intended. The pressure alarms were tested by deactivating the SSDS, at which time the alarms sounded, indicating that the alarms were functioning properly.

Are any repairs and/or maintenance needed at this time? If so, conduct another inspection following repairs.

No repairs are needed at this time. There were no signs of development or ground-intrusive activities having been performed since the implementation of the SMP. Monitoring well MW -3 is destroyed. No damage was observed to the other monitoring wells.

Kathy Crash

Kaitlyn Crosby	Je wy	03/02/2023
Name	Signature	Date