



REMEDIAL IMPLEMENTATION REPORT Leather-Rich Inc.

1250 Corporate Center Drive Oconomowoc, Wisconsin

BRRTS #02-68-581237

September 16, 2022 File No. 20.0156045.02



PREPARED FOR:

Wisconsin Department of Natural Resources Milwaukee, Wisconsin

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Senior Hydrogeologist

September 16, 2022 File No. 20.0156045.02

Mr. Timothy Alessi, NR Region Program Manager Wisconsin Department of Natural Resources 1027 West St. Paul Avenue Milwaukee, Wisconsin 53233

Re: Remedial Implementation Report

Leather-Rich Inc.

1250 Corporate Center Drive Oconomowoc, Wisconsin BRRTS #02-68-581237

Dear Mr. Alessi:

On behalf of Leather-Rich Inc. (Leather-Rich/"Client"), GZA GeoEnvironmental, Inc. (GZA) is pleased to submit this Remedial Implementation Report ("Report") to the Wisconsin Department of Natural Resources (WDNR) for the Leather-Rich facility located at 1250 Corporate Center Drive in Oconomowoc, Wisconsin ("Site"). This Report provides a summary of the enhanced reductive dechlorination (ERD) remedial activities and subsequent groundwater performance monitoring conducted by GZA from May 2 through August 13, 2022. The remedial activities and performance monitoring activities were performed in accordance with the Project Update, Amended Groundwater Remediation Scope of Work, and Temporary Exemption Request for Groundwater Remedial Action Report ("Groundwater Remedial Action Report"), dated February 1, 2022, and approved by the WDNR on March 21, 2022.

The attached document was prepared following our July 26, 2022, telephone conversation and your subsequent electronic message on August 9, 2022, and is intended to meet the progress report requirements outlined in Section B.3 of the WDNR's Infiltration/Injection Temporary Exemption Request approval notice ("WDNR Approval Notice"), dated March 21, 2022. If you should have any questions regarding the Report, please contact Kevin Hedinger at (262) 754-2578.

Sincerely,

GZA GeoEnvironmental, Inc.

Sheryl I. Stephenson Project Hydrogeologist

James F. Drought, P.H. Principal Hydrogeologist

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1.0 INTRODUCTION

On behalf of Leather-Rich Inc. (Leather-Rich/"Client"), GZA GeoEnvironmental, Inc. (GZA) is submitting this Remedial Implementation Report ("Report") to the Wisconsin Department of Natural Resources (WDNR) for the Leather-Rich facility located at 1250 Corporate Center Drive in Oconomowoc, Wisconsin ("Site"). This Report provides a summary of the enhanced reductive dechlorination (ERD) remedial activities and subsequent groundwater performance monitoring conducted by GZA, from May 2, 2022 through August 13, 2022. The remedial and performance monitoring activities were performed in accordance with the Interim Remediation Design and Specifications, and Temporary Exemption Request for Groundwater Remedial Action, dated November 1, 2021, and approved by the WDNR on March 21, 2022. The purpose of the ERD injections is to create groundwater conditions to promote the anaerobic degradation of tetrachloroethene (PCE) in groundwater, as well as the degradation products of PCE, including trichloroethene (TCE). This Report is subject to the Limitations provided in Appendix A.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The Site is an approximately 4-acre parcel within a commercial business park in the City of Oconomowoc, Wisconsin. The Leather-Rich building covers an area of approximately 40,000 square feet, is situated along the southern Site boundary, and was constructed in 1993. A Site Location Map is provided as Figure 1 and a Site Plan that shows the Site layout and features is provided as Figure 2 and a Site Building Plan is provided as Figure 2A to show the features inside of the building.

The dry-cleaning operations are performed in an area that is approximately 100 feet long by 50 feet wide along the north wall in the eastern portion of the building. This area is referred to as the "containment area." The dry-cleaning process and storage area was constructed with a 60-mil polyethylene terra-guardian membrane system installed beneath the dry-cleaning area to contain potential spills or releases. The membrane is described as one piece of material with no seams that was installed at a depth of 2 to 3 feet below the floor elevation. The edge of the membrane along the north wall of the building was secured to the foundation wall, based on Site construction photos and discussion with the previous Leather-Rich operations manager, who was present during installation.

The area above the membrane was backfilled with a sand and gravel base course, and the concrete floor was placed over the gravel. The concrete floor in the containment area is recessed approximately 0.25-foot below the surrounding building concrete floor level to the west and south to provide secondary containment in the event of potential release. No releases of dry-cleaning solvents are known to have occurred within the containment area.

The dry-cleaning equipment and machines are within the containment area and are installed on 4-inch, raised concrete slabs. The dry-cleaning machines represent a closed loop system and the PCE used in the dry-cleaning operation is recovered and recycled for reuse. PCE is delivered to the Site via the overhead doors located west of the process area and is wheeled to a PCE storage tank in the process area, which is located in the containment area along the north wall, behind the machine and process area.

2.2 SUMMARY OF SITE PHYSICAL AND CHEMICAL CONDITIONS

Site investigation activities were conducted by Giles Engineering Associates, Inc. (Giles) from March to July 2018, to evaluate the extent and degree of PCE-affected soil and groundwater identified on-Site. These investigation activities





consisted of advancing five soil boring (SB-1 through SB-5), installing nine monitoring wells (MW-1 through MW-9) and two piezometers (PZ-1 and PZ-2), installation of two sub-slab vapor points (SS-1 and SS-2), and installation of nine soil gas vapor points (SV-1 through SV-9). The results of this investigation identified chlorinated hydrocarbons in soil, groundwater, and soil vapor samples. The results were submitted to the WDNR in November 2018, in a *Site Investigation Report* (SIR), dated October 3, 2018. Following review, the WDNR indicated that the SIR was not approved and required additional investigation activities be completed to address the Chapter NR 716 requirements.

From April 2019 through October 2021, GZA conducted supplemental investigation activities in an effort to satisfy the requirements of Chapter NR 716. The investigation activities consisted of advancing 10 soil borings (SB-6, SB-8, SB-9, SB-10, SB-11, SB-12, SB-14, SB-16, SB-17, and SB-18), and installing 12 monitoring wells (MW-10 through MW-21) and one piezometer (PZ-1). The monitoring wells and the piezometer were installed in accordance with Chapter NR 141 Wisconsin Administrative Code (Wis. Adm. Code). GZA also installed two soil borings (VAP-1 and VAP-2) to a depth of 50 feet below ground surface (bgs) for vertical aquifer profiling. Additional groundwater gauging and sampling activities were conducted between April 2019 and July 2021, to monitor groundwater quality at the Site.

Based on observations and results of the Site investigation activities, the following is a summary of pertinent information related to the groundwater treatment activities performed to create favorable conditions for ERD:

- Soils at the Site are classified as fine to coarse sand with little fine silt and clay to the maximum depth explored of approximately 50 feet bgs. The soils generally become coarser grained with depth. During drilling activities, bedrock was not encountered at the Site and is estimated to be at a depth of 100 to 150 feet bgs.
- 2. The depth to groundwater in the monitoring wells on- and off-Site ranges from approximately 12 to 19 feet below grade (elevation range of 865 to 868 feet). The groundwater elevations measured at the Site from April 2022 through August 2022, are provided in Table 1.
- 3. The horizontal groundwater flow direction at the Site is to the northwest toward the Oconomowoc River, located approximately 2.25 miles northwest of the Site. The average hydraulic gradient measured at the Site during monitoring events ranged from 0.0014 feet per foot (ft/ft) to 0.002 ft/ft. The groundwater flow direction was measured on April 6, June 16, July 13, and August 12, 2022, and is shown on Figures 3A through 3D, respectively.
- 4. The vertical gradient in the monitoring well and piezometers nests, MW-1/PZ-1, MW-9/PZ-2, and MW-13/PZ-3, were evaluated to determine the vertical hydraulic gradients. In the pre- and post-monitoring events in 2022, the vertical gradient in the monitoring well/piezometer nests is generally upward; however, it appears that it may fluctuate between upward and downward hydraulic gradients ranging from -0.0018 ft/ft to 0.0078 ft/ft. Overall, the vertical hydraulic gradients suggest that they are not causing vertical distribution of contaminants.
- 5. PCE, and to a limited extent its daughter products, were detected in the soils in the dry-cleaning area. The affected soils in the unsaturated zone extend from the near surface area to the depth of groundwater. The chlorinated hydrocarbons in soil have been delineated on-Site in the dry-cleaning area.
- 6. PCE is the primary chlorinated hydrocarbon detected in groundwater and has been detected at concentrations ranging from approximately 30 to 900 micrograms per liter (μ g/l) in the groundwater monitoring wells near or downgradient of the containment area. Concentrations of the degradation products TCE, cis-1,2-dichloroethene (DCE) and trans-1,2-DCE, were also detected at or downgradient of the containment area.



3.0 REMEDIAL ACTION IMPLEMENTATION

Groundwater samples collected from the Site monitoring wells since approximately 2018 for laboratory analysis of volatile organic compounds (VOCs) indicate that PCE is the primary groundwater contaminant. PCE is a chlorinated hydrocarbon that can be reductively degraded to daughter products TCE, cis-1,2-DCE, vinyl chloride, and ethene, most efficiently under anaerobic groundwater conditions. TCE, a degradation product of PCE, has been detected in groundwater samples above the NR 140 enforcement standard (ES). An evaluation of other degradation products indicated that some reductive dechlorination of PCE has occurred in the area of the highest concentrations near the containment area.

The PCE concentrations detected in groundwater at the Site are relatively low compared to other dry-cleaning and industrial sites where chlorinated hydrocarbons have affected groundwater. The low levels at the Site are indicative of fugitive, incidental discharges over time. The building at the Site was constructed in 1993, with controls and handling procedures to minimize discharges and the equipment used for the dry-cleaning is a closed-loop system, which reduces or eliminates discharges.

The soils at the Site predominantly consist of coarse-grained deposits of sand and gravel, which typically contain limited organic carbon to facilitate the reductive dichlorination. In addition, the geochemical parameters collected during low-flow sampling indicate that natural groundwater conditions at the Site are aerobic, as indicated by the dissolved oxygen (DO). The aerobic conditions are a limiting factor for reductive dechlorination, without an amendment to reduce the DO. GZA proposed an ERD groundwater remedial action to create anaerobic groundwater conditions necessary to support effective reductive dichlorination in our February 1, 2022, Groundwater Remedial Action Report, which was approved by the WDNR on March 21, 2022.

Strongly reducing, anaerobic conditions are created by the injection of the electron donor to facilitate the reductive dechlorination process. Reductive dechlorination refers to the process of successively removing one chlorine atom from the contaminant, thus producing more reduced daughter products until the chlorinated hydrocarbons are reduced to ethene. The reductive dechlorination process begins with the anaerobic fermentation of the electron donor to create molecular hydrogen and acetate. The molecular hydrogen is consumed by various reactions, including the electron acceptors, DO, nitrate, and sulfate, to create successively stronger anaerobic conditions. The acetate generated during fermentation is utilized as a carbon source by bacteria (dehalococcoides) to facilitate reductive dechlorination and replace the chlorine atoms with hydrogen. Some of the acetate not used in the reductive dechlorination process may be fermented to methane.

The sections below describe the remedial activities performed at the Site.

3.1 PRE-INJECTION GROUNDWATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLING

Prior to the commencement of the ERD injection activities, GZA collected baseline groundwater samples on April 5 and 6, 2022, from the existing monitoring well network to establish a pre-injection baseline that can be used to evaluate the performance and progress of the interim groundwater remediation.

Groundwater samples were collected using a peristaltic pump attached to disposable polyethylene tubing placed within the well screen of each monitoring well. Groundwater was purged from the wells at flow rates of approximately 225 to 380 milliliters per minute (ml/min). During purging, field parameters (pH, temperature, specific conductivity, DO, and oxidation-reduction potential [ORP]) were measured using a flow-through cell and water quality meter. Water levels were measured until stable conditions were achieved. The groundwater samples were collected directly from the peristaltic





pump into laboratory-supplied sample containers by disconnecting the flow-through cell. Purge water was containerized in a 5-gallon bucket and placed into a 55-gallon, metal drum staged on-Site.

The groundwater samples were placed on ice in an insulated cooler and submitted to Pace® Analytical Services (Pace) under chain-of-custody procedures for chlorinated VOCs (cVOCs) analyses by United States Environmental Protection Agency (USEPA) Method 8260, dissolved iron by USEPA Method 6010D, dissolved gases (ethane, ethene, and methane) by USEPA 8015B Modified, sulfate by Standard Method 300.0, and total organic carbon (TOC) by SM Method 5310C. The groundwater laboratory analytical reports are provided in Appendix B, the water level measurements are provided on Table 1, the groundwater and electron acceptor analytical results are provided on Table 2, and the field parameter measurements are provided on Table 3.

The field indicator parameters (DO and ORP) collected during low-flow sampling confirmed aerobic groundwater conditions at the Site. The DO in the groundwater ranged from 4.39 milligram per liter (mg/l) to 10 mg/l and ORP varied from 35 millivolts (mV) to 380 mV. Ideal DO and ORP values for efficient reductive dechlorination are if DO is <0.5 mg/l and ORP is between -75 and -150 mV.

In addition to the field indicator parameters, geochemical parameters (TOC, sulfate, and dissolved iron) were analyzed. Dissolved iron and sulfate concentrations provide an insight into the strength of the reducing environment in groundwater. As the groundwater conditions become more reducing, the ferric iron is reduced to ferrous iron (which is soluble in groundwater) and the sulfate concentrations decrease. These pre-injection groundwater sample results indicated that the groundwater conditions were not favorable for reductive dechlorination, as evidenced by the lack of dissolved iron concentrations in the monitoring wells and the presence of sulfate concentrations detected in 14 of the 24 wells. The TOC measured in the groundwater samples in the monitoring wells was less than 5.3 mg/l.

Based on the pre-injection baseline groundwater sample evaluation, the injection of an electron donor (carbon source) was determined to be a feasible remedial alternative to promote anaerobic groundwater conditions necessary for effective reductive dechlorination of the chlorinated hydrocarbons.

The highest PCE concentrations at the Site were reported from monitoring wells MW-6, MW-7, and MW-8, which are located immediately north of the containment area outside of the building. PCE concentrations in these wells were measured at 160 μ g/l, 197 μ g/l, and 106 μ g/l, respectively. PCE concentrations decrease with distance downgradient of the containment area wells. The groundwater elevations confirmed that the horizontal groundwater flow is northwest. The water level measurements from April 2022 are shown on Table 1.

3.2 <u>INJECTION WELL INSTALLATIONS</u>

On April 28, 2022, On-Site Environmental Services, Inc. (OES) of Sun Prairie, Wisconsin, mobilized to the Site to modify or install 11 injection wells using a Geoprobe® 7822 DT track-mounted drill rig. The injection wells included modification of seven injection wells in the area immediately north of the containment area (containment area injection wells) and installation of four injection wells located along the northwest property boundary (property boundary injection wells).

The seven containment area injection wells were previously installed during other Site investigation activities conducted in July 2019. Prior to implementing remedial activities, the depth to water and total well depth were measured in each containment area injection well and it was determined, based on the depth to water and total depth of each well, that there were only 2 feet of water in the well for injection. This depth of water is insufficient for the injection of emulsified vegetable oil (EVO), therefore, the wells were modified. During modification, the 2-inch PVC riser and well screen were removed, a 2-inch diameter, direct-push boring was advanced in the same location, and a 1-inch PVC well riser and screen were installed. Each well was completed to 30 feet bgs with 10 feet of 0.010-inch, factory-slotted well screen and 20 feet





of riser to ensure that the well screen was fully submerged. The submerged screen allowed for distribution of the EVO throughout the 10-foot water column in the screen interval. A sand filter pack was placed in the annular space around the well screen from the bottom of the boring to approximately 1 foot above the top of the well screen. The annular space above the sand filter pack was filled with 1 foot of fine sand and %-inch of bentonite chips as a surface seal. The injection wells have an 8-inch manway cover. These containment area injection wells are located in an approximately 40-foot by 18-foot area outside of the north wall of the building within the area that has the highest measured PCE groundwater concentrations.

Four additional property boundary injection wells were installed along the northwest property boundary near monitoring well MW-17. The injection wells were installed in a linear pattern with a 40-foot space. Each well was installed to a depth of 30 feet bgs and completed as a NR 141-compliant, 2-inch monitoring well with 10 feet of 0.010-inch, factory-slotted, PVC well screen and riser. A sand filter pack was placed in the annular seal around the well screen from the bottom of the boring to approximately 2 feet above the top of the well screen and %-inch of bentonite chips were place above the sand filter pack to the surface. The injection wells have an 8-inch manway cover. The injection well locations are shown on Figure 4. The injection well construction documentation is provided in Appendix C.

3.3 ERD INJECTION IMPLEMENTATION

The ERD injection activities were performed from May 2 through May 12, 2022. The injected solution consisted of a mixture of potable water delivered to the Site by Waterman, Inc. of West Allis, Wisconsin mixed with an emulsified soybean oil and lactate supplied by JRW Bioremediation as Lactoil® and WilClear Plus®.

Wilclear Plus® is a sodium lactate with Accelerite®. The solution is a soluble, fast-acting lactate that scavenges the oxygen from the subsurface and causes the ORP to become negative, which creates ideal anaerobic conditions for the rapid dechlorination of PCE to daughter products. When injected, Wilclear Plus® is expected to be consumed in 6 to 12 months, which limits the length of time that WilClear Plus® can treat groundwater. LactOil® is an emulsified soybean oil that is a slower-release ethyl lactate, which is used to establish longer-term suitable groundwater geochemical conditions that facilitate ERD. The emulsified oil absorbs to the aquifer matrix and releases electron donor over an extended period of time. This improves the efficiency and longevity of donor utilization after the Wilclear Plus® is consumed. The product information sheets for are provided in Appendix D.

The injection implementation activities are summarized as follows:

- 1. The injections were performed in two separate areas. One injection array consisted of seven injection wells spaced approximately 10 to 12 feet apart and were installed in two rows north of the containment area; this array is referred to as the containment area injection wells. The other injection array consisted of four injection wells located along the northwest property line near MW-17 and spaced approximately 40 feet apart; this array is referred to as the property boundary injection wells. The locations are presented on Figure 4.
- 2. The saturated thickness for treatment zone in each of the injection areas was estimated to be 10 feet. The depth to groundwater in the injection areas was measured to be approximately 18 feet bgs, therefore, the injection treatment zone was from approximately 20 to 30 feet bgs.
- 3. The injection program utilized three totes each of Wilclear Plus® and LactOil®. Each tote held approximately 265 gallons of WilClear Plus® or Lactoil® for a total of approximately 6,000 pounds of each material.
- 4. The WilClear Plus® and Lactoil® were each mixed in separate 1,000-gallon polyethylene tanks with the potable water. The potable water was transported to the Site and stored in a 5,000-gallon vertical polyethylene tank. The injections were completed in two stages. In the first stage, approximately 72 gallons of WilClear Plus® were mixed with





approximately 1,000 gallons of potable water and injected. In the second stage, approximately 72 gallons of Lactoil® were mixed with approximately 1,000 gallons of Lactoil® and injected. The injection flow rate at each injection well was monitored by a flow meter connected in-line between the 1,000-gallon tank and the injection well. The flow rate and injection time were recorded for each tank mixture to estimate the flow rate for each well.

- 5. For the containment area injection wells, the injection was performed by connecting the 1,000-gallon mixing tank to the top of the injection well using a polyethylene hose. The hose was secured to the top of the injection well using a rubber connector and hose clamp. To start the injections, the valve on the tank was opened to allow for the material to flow into the well. A 1/10HP in-line transfer pump was connected to the injection hose to maintain flow of the solution into the well. The maximum flow rate of the pump was 5 gallons per minute (gpm); however, the average injection rate was between 2 and 3 gpm.
- 6. For the property boundary injection wells, the injection was performed in a similar manner. However, in these wells, a drop tube was installed in the well and was connected to the injection hose. The drop tube consisted of a 1-inch PVC pipe that extended to a depth of approximately 25 to 30 feet bgs. The drop tube allowed for the mixtures to be injected beneath the water table within the well screen to allow for even distribution throughout the treatment zone.
- 7. During the injection process, the flow rate was monitored and controlled at each well to control the flow of material into the subsurface so that it did not create preferential flow paths, and to reduce the potential for the solution to travel upward in the PVC riser to the surface. The flow rate in the wells showed a decrease in flow over the duration of the injections, which was typically approximately 4 hours. The flow rate is limited by the aquifer material and the ability of the aquifer to accept additional fluid.
- 8. A cumulative total of approximately 795 gallons of Wilclear Plus® and 795 gallons of Lactoil® were injected into the subsurface through the 11 injection points. The total diluted Wilclear Plus® volume injected into the containment area injection wells was 5,862 gallons, with each well receiving between 702 and 969 gallons. The total diluted Lactoil® volume injected into the containment area was 7,160 gallons, with each well receiving between 959 and 1,080 gallons. The total diluted Wilclear® volume injected into the property boundary injection wells was 3,707 gallons, with each well receiving between 874 gallons and 977 gallons. The total diluted Lactoil® volume injected into the property boundary wells was 3,834 gallons, with each well receiving between 850 and 1084 gallons.
- 9. During the injection activities, the groundwater elevations were measured in monitoring wells within and surrounding the injection areas (MW-1, MW-2, MW-6, MW-7, MW-8, MW-9, MW-11, MW-14, MW-15, MW-18, MW-20, PZ-1, and PZ-2) three times per day (before, during, and at the end of injections each day). During the injection in the property boundary injection wells, MW-17 was included in the list of wells to measure groundwater elevation. The purpose of the groundwater elevation measurements was to monitor changes in the water levels caused by the injection. During the injections, the groundwater measurements did not indicate mounding or changes that indicated the injections were causing migration. The groundwater measurements at the beginning and end of the day were similar and any changes was likely due to changes in the barometric pressure, not the injections. The water levels measured during the injection activities are summarized in Table 4.

3.4 POST-ERD INJECTION MONITORING

The purpose of the post-injection monitoring is to evaluate the effectiveness of electron donor injections at creating sufficient anaerobic conditions for reductive dechlorination, and to evaluate the effectiveness of the anaerobic conditions to reduce the chlorinated hydrocarbon concentrations in groundwater. As described in the approved temporary exemption request, post-injection groundwater monitoring events were performed monthly for the three months following injection from select monitoring wells (MW-1, MW-6, MW-7, MW-13, and MW-17) on June 16, July 13, and





August 12, 2022. The monitoring wells selected to monitor the performance in each injection area were wells that would be expected to measure changes in the groundwater conditions. The results from MW-1, MW-6, and MW-7 were used to evaluate remedial progress near the containment area and results from MW-13 and MW-17 were used to evaluate remedial progress near the northwest property boundary.

Groundwater samples were collected using a peristaltic pump attached to disposable polyethylene tubing placed into each monitoring well. Groundwater was purged from the wells at flow rates of approximately 150 to 350 ml/min prior to sampling. During purging, field parameters (pH, temperature, specific conductivity, DO, and ORP) were measured using a flow-through cell and a water quality meter, and water levels were measured until stable conditions were achieved. The groundwater samples were collected directly from the peristaltic pump into laboratory-supplied sample containers by disconnecting the flow-through cell. Purge water was containerized in a 5-gallon bucket and was placed in a 55-gallon drum staged on-Site. This drum was used to containerize groundwater from multiple sampling events and arrangements will be made for disposal once the drum is full.

The groundwater samples were placed on ice in an insulated cooler and submitted to Pace under chain-of-custody protocol via overnight carrier. The groundwater samples were submitted for analysis of cVOCs by USEPA Method 8260, dissolved iron by USEPA Method 6010D, dissolved gases (ethane, ethene, and methane) by USEPA 8015B Modified, sulfate by Standard Method 300.0, and TOC by SM Method 5310C. The groundwater laboratory analytical reports are provided in Appendix E, the field parameter measurements are provided on Table 3, and the groundwater level measurements from the post-injection monitoring are provided on Table 1.

4.0 POST-ERD INJECTION MONITORING RESULTS

The following sections present the post-injection monthly groundwater sample results, provide an evaluation of the effectiveness of electron donor injections at creating sufficient anaerobic conditions for reductive dechlorination, and provide an evaluation of the effectiveness of the anaerobic conditions to reduce the chlorinated hydrocarbon concentrations in groundwater. This evaluation includes a discussion of the pre- and post-injection monitoring data in relationship to the performance objectives.

4.1 ELECTRON DONOR DISTRIBUTION AND GROUNDWATER LEVELS

The containment area injection wells were located along two rows within a 40-foot by 18-foot area and the property boundary injection wells were located along the northwest property boundary approximately 40 feet apart. The volume of injected solution was calculated to replace one-third of the volume of groundwater within a 10-foot radius around the well and within the 10-foot treatment zone. The injection points were arranged around existing monitoring wells such that groundwater samples collected from these wells could evaluate the distribution of electron donor in the subsurface.

The analytical results from the three monthly sampling events indicate the TOC increased in MW-1, MW-6, and MW-7 following the injections, and in MW-13 and MW-17, TOC increased at a progressive but slower pace. The slow, progressive increase in MW-13 and MW-17 is due to a lower density of injection wells at the property boundary as compared to the containment area and the greater distance from the injection wells to the monitoring wells. Based on the slower rate of increase in TOC in MW-13 and MW-17, it is anticipated that the decrease in concentrations will have a similar response. Graph 1 shows the TOC concentrations in monitoring wells prior to and following electron donor injections.



Groundwater elevations were measured from select monitoring wells each day during the injection activities and are summarized on Table 4. The results of the groundwater elevations indicate that the injection activities had little, if any influence in the aquifer. Graph 2 shows the groundwater elevations measured during the injection period.

4.2 GROUNDWATER CONDITIONS

The purpose of injecting an electron donor is to create a groundwater environment that allows for efficient reductive dechlorination of chlorinated hydrocarbons in groundwater. This type of environment is characterized by low concentrations of DO and ORP, nitrate, and sulfate, and elevated concentrations of dissolved iron and methane.

The following table shows optimal concentration ranges for the electron acceptors and the biodegradation by-products that are indicative of strongly reducing, anaerobic conditions, and the actual concentrations of these parameters measured during the August post-injection monitoring event.

Parameter	Typical Concentration	Actual Concentration
DO	<0.5 to 1 mg/l	1.61 to 4.33 mg/l
ORP	<50 to <-100 mV	47 to -162 mV
Sulfate	<20 mg/l	ND to 21.8 mg/l
Ferrous Iron	>1.0 mg/l	ND to 40.8 mg/l
Methane	<0.5 mg/l	ND to 0.037 mg/l

*ND = concentrations were not detected.

DO and ORP are measured with a field instrument during low-flow groundwater sampling because these parameters change rapidly once the water is extracted from the well. Some fluctuations of these parameters are measured during the post-injection monitoring, which can be a result of the groundwater conditions or differences in the field instrument being used. These are indicator parameters that support the laboratory data collected for the other parameters.

DO values in the containment area wells (MW-1, MW-6, and MW-7) ranged from 7.96 mg/l to 8.99 mg/l in the April 2022 baseline sampling event. DO in the containment area wells was depleted to <0.5 mg/l by the June 2022 sampling event. The property boundary wells (MW-13 and MW-17) had DO values of 1.12 mg/l and 0.34 mg/l, respectively, in the June 2022 sampling event. The decrease in DO indicates that the groundwater is under anaerobic conditions and other electron acceptors will be utilized by the microbes. Graph 3 shows the DO concentrations in the injection areas from April through August 2022.

The ORP values in the containment area wells ranged from 35.8 mV to 203 mV in the April 2022 baseline sampling event. The ORP values measured during the June 2022 sampling event ranged from -77 mV to -104 mV and continued to remain strongly negative through the August sampling event. ORP values in the property boundary wells (MW-13 and MW-17) during the June 2022 sampling event were 51 mv and 47 mV, respectively, and during the July 2022 sampling event the ORP decreased to -23 mV and 1 mV. The ORP in these wells indicates that the conditions in the containment area are strongly reducing and the conditions near the property boundary are becoming more reducing over time. Graph 4 indicates that the electron donor reduced the ORP values in the injection areas.

Under increasingly anaerobic reducing conditions, ferric iron is used as an electron acceptor and is reduced to ferrous iron, which is soluble in groundwater. An increase in ferrous iron indicates an increase in the groundwater reducing conditions. The pre-injection dissolved iron concentrations were below the method detection limit in each well, except for MW-18 where it was detected at approximately 90.3 μ g/l. During the June 2022 sampling, the dissolved iron concentrations in the containment area wells MW-1, MW-6, and MW-7 increased to 2,720 μ g/l, 1,760 μ g/l, and 195 μ g/l, respectively. These dissolved iron concentrations continued to increase, and during the August 2022 sampling event, the concentrations were





 $6,310\,\mu g/l$, $40,800\,\mu g/l$, and $1,690\,\mu g/l$. The dissolved iron concentration in monitoring well MW-13 was below the method detection limit for the June 2022 and August 2022 sampling event and during the July 2022 sampling event the concentrations was 92.8 $\mu g/l$. The concentration in MW-17 remained below the method detection limit for dissolved iron until the August 2022 sampling event when it was detected at 565 $\mu g/l$. The delayed increase in dissolved iron in MW-13 and MW-17 is likely due to the lower density of nearby injection wells. However, the concentrations measured in the August 2022 sampling showed a significant increase, indicating that the conditions continue to progress toward strongly reducing conditions. Graph 5 shows the dissolved iron concentrations from April through August 2022.

Sulfate concentrations in the containment area monitoring wells have significantly decreased since the injection of the electron donor. The pre-injection sulfate concentration in the containment area wells (MW-1, MW-6, and MW-7) ranged from 15.1 mg/l to 18.7 mg/l in the April 2022 baseline sampling event. From April to July 2022, the sulfate concentrations in MW-7 decreased from 18.7 mg/l to 6.9 mg/l, and in MW-1 and MW-6, the sulfate concentrations were less than the method detection limit. This reduction in the sulfate concentrations is evidence that the groundwater conditions in the containment area are under sulfate-reducing conditions as a result of the injection of the electron donor. Sulfate-reducing conditions are the optimal conditions to efficiently degrade chlorinated hydrocarbons. The sulfate concentrations in the property boundary well, MW-13, shows a steady decreasing trend from 34 mg/l in April 2022 to 11 mg/l in August 2022. MW-17 has not exhibited a decreasing trend in sulfate concentrations. As discussed for other parameters, the parameter responses are delayed in the property boundary area, but there are indications that the conditions are progressing toward sulfate-reducing conditions. Graph 6 shows the sulfate concentration in the source area prior to and following electron donor injection.

Methane concentrations in the baseline sampling event were below the method detection limit. During the June 2022 and July 2022 sampling events, the methane concentrations were also less than the method detection limit. However, during the August 2022 sampling event, MW-1, MW-6, and MW-7 had detections of methane at 37.1 μ g/l, 11.5 μ g/l, and 4.1 μ g/l, respectively. Methane concentrations were below the method detection limit in MW-13 and MW-17 from April through August 2022. The lack of methane in MW-13 and MW-17 is expected based on the other indicator parameters because the groundwater conditions are not yet strongly reducing and have not reached methanogenesis.

The post-injection performance monitoring data through August 2022 indicate that the electron donor injections have successfully created strongly reducing, anaerobic conditions favorable for reductive dechlorination within the containment area and the property boundary area is progressively becoming more reducing over the duration of the monthly sampling events. The post-injection monitoring results for the containment area wells demonstrate a decrease in DO, ORP, and sulfate, as well as an increase in dissolved iron and methane. The property boundary well results indicate reducing conditions are being created.

4.3 GROUNDWATER CONCENTRATIONS

The strongly reducing, anaerobic conditions created by the injection of the electron donor are favorable for the reductive dechlorination of chlorinated hydrocarbons. In Section 4.2, the performance monitoring data were presented to demonstrate that the injection of the electron donor has created strongly reducing, anaerobic groundwater conditions. The groundwater performance monitoring analytical data presented in this section demonstrates that the reductive dechlorination process is remediating the groundwater by reducing the chlorinated hydrocarbon concentrations. Table 2 presents the laboratory analytical results of the post-injection monitoring.



4.3.1 <u>Pre- and Post-Injection Monitoring Comparison</u>

The performance monitoring data indicates that the injections have reduced the chlorinated hydrocarbon concentrations. The pre- and post- injection concentrations in the wells within the injection areas are summarized below.

Analyte	ES	Timing	MW-1	MW-6	MW-7	MW-13	MW-17
PCE	5	Pre-Injection	48.3	169	197	58	57.7
(μg/l)	5	Post-Injection	11.3	15.6	31.2	34.5	67.7

Figure 5 shows the groundwater distribution of PCE from pre-injection (April 2022) through post-injection (August 2022). The analytical results from each post-injection monitoring event are shown on Table 2.

The daughter products in the groundwater samples have not increased during the three monthly monitoring events despite the successful decrease in PCE concentrations. The materials used for the injection are intended to limit the buildup of daughter products and it is working as intended at the Site.

Overall, the decrease in PCE, along with the favorable response in the field parameters, indicates that the electron donor has created conditions favorable for reductive dechlorination and that enhanced reductive dechlorination is successfully reducing the groundwater concentrations.

5.0 CONCLUSIONS

The ERD remedial groundwater implementation and the subsequent performance monitoring have confirmed that use of this remedial strategy will be effective to remediate the chlorinated hydrocarbon-affected groundwater at the Site. Below is a summary of the results of the post ERD injection monitoring events.

- 1. During injection activities, groundwater elevations were monitored to demonstrate that the electron donor injection did not significantly change the hydraulic gradient or cause the groundwater plume to migrate. The groundwater elevations in the wells in the immediate area of the injection points were observed to increase during the injection by less than 1.5 inches. The groundwater elevations recovered to approximately the pre-injection static elevation by the start of the following day, indicating that the subsurface soils were able to transmit the injected solution throughout the aquifer.
- 2. The electron donor was able to be injected at a rate less than 5 gpm, which is within the requirements of the WDNR approval letter.
- 3. The injection of electron donor at the seven injection wells in the containment area and at the four injection wells in the property boundary area have created and maintained anaerobic conditions favorable for reductive dechlorination.
- 4. The DO, ORP, and sulfate concentrations in the injection areas have decreased following the injection activities. The TOC, dissolved iron, and methane concentrations have increased following the injection activities. These changes in the groundwater conditions indicate that the conditions are favorable for continued reductive dechlorination.
- 5. The favorable conditions developed for reductive dechlorination have successfully reduced the concentration of PCE, as demonstrated during the August 2022 sampling event.

Based on the groundwater conditions and the reduction in PCE concentrations, Leather-Rich intends to continue with the quarterly performance monitoring approved by the WDNR. The next round of groundwater sampling is schedule for November 2022.



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6.0 CERTIFICATION

"I, <u>James F. Drought, P.H.</u>, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Signature September 16, 2022

Date

Principal Hydrogeologist

Title



TABLES

TABLE 1 SUMMARY OF GROUNDWATER ELEVATIONS PRE- AND POST-INJECTION

Leather-Rich Inc. Oconomowoc, Wisconsin

WELL ID	TOC ELEVATION (ft)	GROUND SURFACE ELEVATION (ft)	DEPTH TO BOTTOM (ft)	SCREEN LENGTH (ft)	DEPTH TO WATER (ft)	GROUNDWATER ELEVATION (ft above msl)	DATE
					18.85	866.29	4/5/2022
					18.76	866.38	4/6/2022
MW-1	885.14	885.39	22.75	10	17.27	867.87	6/16/2022
					16.89	868.25	7/13/2022
					17.56	867.58	8/12/2022
					17.85	865.63	4/5/2022
					17.68	865.80	4/6/2022
MW-2	883.48	883.69	20.8	5	16.10	867.38	6/16/2022
					15.89	867.59	7/13/2022
					16.58	866.90	8/12/2022
					18.75	865.55	4/5/2022
					18.56	865.74	4/6/2022
MW-3	884.30	885.59	20.72	5	17.12	867.18	6/16/2022
					16.74	867.56	7/13/2022
					17.35	866.95	8/12/2022
					14.78	865.56	4/5/2022
					14.59	865.75	4/6/2022
MW-4	880.34	880.60	17.86	5.00	13.12	867.22	6/16/2022
					12.75	867.59	7/13/2022
					13.36	866.98	8/12/2022
					17.91	865.63	4/5/2022
	883.54				17.75	865.79	4/6/2022
MW-5		883.82	20.82	5.00	16.20	867.34	6/16/2022
					16.00	867.54	7/13/2022
					16.71	866.83	8/12/2022
					18.82	866.28	4/5/2022
					18.63	866.47	4/6/2022
MW-6	885.10	885.41	20.95	5.00	17.19	867.91	6/16/2022
11111 0	000.10	000111	20.50	2.00	16.78	868.32	7/13/2022
					17.46	867.64	8/12/2022
					18.88	866.31	4/5/2022
					18.72	866.47	4/6/2022
MW-7	885.19	885.44	20.90	5.00	17.25	867.94	6/16/2022
1,1,1,	003.17	003.11	20.50	2.00	16.85	868.34	7/13/2022
					17.53	867.66	8/12/2022
					18.95	866.31	4/5/2022
					18.76	866.50	4/6/2022
MW-8	885.26	885.40	21.00	5.00	17.35	867.91	6/16/2022
MW-8	,				16.95	868.31	7/13/2022
					17.62	867.64	8/12/2022
					19.06	866.31	4/5/2022
					18.87	866.50	4/6/2022
MW-9	885.37	885.66	20.05	10	17.43	867.94	6/16/2022
					17.02	868.35	7/13/2022
					-	-	8/12/2022

TABLE 1 SUMMARY OF GROUNDWATER ELEVATIONS PRE- AND POST-INJECTION

Leather-Rich Inc. Oconomowoc, Wisconsin

WELL ID	TOC ELEVATION (ft)	GROUND SURFACE ELEVATION (ft)	DEPTH TO BOTTOM (ft)	SCREEN LENGTH (ft)	DEPTH TO WATER (ft)	GROUNDWATER ELEVATION (ft above msl)	DATE
					19.16	866.05	4/5/2022
					19.00	866.21	4/6/2022
MW-10	885.21	885.70	21.92	10.00	17.50	867.71	6/16/2022
					17.12	868.09	7/13/2022
					•	-	8/12/2022
					19.03	866.24	4/5/2022
					18.84	866.43	4/6/2022
MW-11	885.27	885.64	23.04	10.00	17.38	867.89	6/16/2022
					16.97	868.30	7/13/2022
					-	-	8/12/2022
					18.44	865.58	4/5/2022
					18.25	865.77	4/6/2022
MW-12	884.02	884.36	22.04	10.00	16.60	867.42	6/16/2022
					16.46	867.56	7/13/2022
					17.15	866.87	8/13/2022
					18.41	865.57	4/5/2022
					18.25	865.73	4/6/2022
MW-13	883.98	884.35	22.1	10	16.62	867.36	6/16/2022
					16.42	867.56	7/13/2022
					17.14	866.84	8/12/2022
					17.40	865.50	4/5/2022
					17.23	865.67	4/6/2022
MW-14	882.90	883.33	22.20	10.00	15.62	867.28	6/16/2022
					15.32	867.58	7/13/2022
					16.00	866.90	8/12/2022
					17.90	865.51	4/5/2022
	002.41	002.00	22.10	10	17.73	865.68	4/6/2022
MW-15	883.41	883.80	22.10	10	16.20	867.21	6/16/2022
					15.84	867.57	7/13/2022
					16.50	866.91 865.55	8/12/2022
					17.35		4/5/2022
MW 16	992.00	002.51	10.60	10	17.14	865.76 867.40	4/6/2022
MW-16	882.90	883.51	19.60	10	15.50		6/16/2022
					15.38	867.52	7/13/2022
					16.13 18.07	866.77	8/12/2022 4/5/2022
						865.61 865.70	
MW-17	883.68	884.24	21.22	10	17.89 16.15	865.79 867.53	4/6/2022 6/16/2022
IVI VV -1 /	883.08	004.24	21.22	10	16.10	867.58	7/13/2022
					16.85	866.83	8/12/2022
					17.72	865.50	4/5/2022
					17.72	865.71	4/6/2022
MW-18	883.22	883.52	24.95	10	15.67	867.55	6/16/2022
141 44 -10	003.22	003.32	۷٦.۶۵	10	15.72	867.50	7/13/2022
					16.50	866.72	8/12/2022
					17.11	865.54	4/5/2022
					16.92	865.73	4/6/2022
MW-19	882.65	882.99	23.99	10	15.10	867.55	6/16/2022
171 77 -17	302.03	002.77	23.77	10	15.19	867.46	7/13/2022
					15.19	866.68	8/12/2022

TABLE 1 SUMMARY OF GROUNDWATER ELEVATIONS PRE- AND POST-INJECTION

Leather-Rich Inc. Oconomowoc, Wisconsin

WELL ID	TOC ELEVATION (ft)	GROUND SURFACE ELEVATION (ft)	DEPTH TO BOTTOM (ft)	SCREEN LENGTH (ft)	DEPTH TO WATER (ft)	GROUNDWATER ELEVATION (ft above msl)	DATE
					17.20	866.02	4/5/2022
					16.95	865.75	4/6/2022
MW-20	882.70	883.22	24.59	10	14.86	867.84	6/16/2022
					15.20	867.50	7/13/2022
					16.10	866.60	8/12/2022
					15.49	865.58	4/5/2022
					15.10	865.97	4/6/2022
MW-21	881.07	881.63	24.75	10	12.84	868.23	6/16/2022
					13.52	867.55	7/13/2022
					14.48	866.59	8/12/2022
	885.08				18.83	866.25	4/5/2022
			36.75		18.66	866.42	4/6/2022
PZ-1		885.30		5.00	17.18	867.90	6/16/2022
					16.80	868.28	7/13/2022
					17.49	867.59	8/12/2022
					18.89	866.32	4/5/2022
					18.69	866.52	4/6/2022
PZ-2	885.21	885.65	35.70	5	17.25	867.96	6/16/2022
					-	-	7/13/2022
					-	-	8/12/2022
					18.30	865.56	4/5/2022
					18.12	865.74	4/6/2022
PZ-3	883.86	884.42	36.31	5.00	16.48	867.38	6/16/2022
120	883.86	884.42	36.31	5.00	-	-	7/13/2022
					17.15	866.71	8/12/2022
					17.13	800./1	0/12/2022

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS PRE- AND POST-INJECTION Leather-Rich Inc.

Oconomowoc, Wisconsin

Douganastan	ES	PAL		M	W-1		MW-2	MW-3	MW-4	MW-5		M\	W-6			M	W-7		MW-8	MW-9
Parameter	(μg/l)	(μg/l)	4/6/22	6/16/22	7/13/22	8/12/22	4/6/22	4/6/22	4/6/22	4/5/22	4/5/22	6/16/22	7/13/22	8/12/22	4/5/22	6/16/22	7/13/22	8/12/22	4/5/22	4/5/22
	C	Collected by:	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	<u>48.3</u>	<u>28.3</u>	<u>74.7</u>	<u>11.3</u>	<u>10.7</u>	< 0.41	1.8	0.62J	<u>169</u>	<u>41.4</u>	<u>47.4</u>	<u>15.6</u>	<u>197</u>	<u>48.8</u>	<u>66.3</u>	<u>31.2</u>	<u>106</u>	<u>49.1</u>
Trichloroethene	5	0.5	3.2	0.99 J	<u>6.9</u>	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	<u>7.5</u>	2.3	2.9	1.8	<u>19.3</u>	1.5	2.2	1.6	4.4	<u>9.6</u>
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.35	< 0.17	<u>0.50 J</u>	<u>13.3</u>	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	8.9	1.6	10.5	2.2	< 0.47	< 0.47	< 0.47	< 0.47	20.5	5.5	7.3	<u>219</u>	64.7	1.4	1.9	9.7	10.9	25.7
trans-1,2-Dichloroethene	100	20	0.92J	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	2.2	< 0.53	< 0.53	0.64 J	4.7	< 0.53	< 0.53	< 0.53	0.84	2.3
Sulfate	NS	NS	15,100	17,800	< 2,200	850 J	22,700	NA	NA	NA	17,800	17,000	< 2,200	< 2,200	18,700	22,300	6,900 J	13,000	20700	NA
Iron, Dissolved	NS	NS	< 56.7	2,720	4,800	6,310	< 56.7	NA	NA	NA	< 29.6	1,760	33,300	40,800	< 29.6	195	5,640	1,690	< 29.6	NA
Total Organic Carbon	NS	NS	2,100	24,200	45,100	22,200	1,100	NA	NA	NA	1,000	236,000	666,000	314,000	1,000	33,500	70,000	4,300	1100	NA
Ethane	NS	NS	< 0.39	< 0.39	< 0.39	< 0.39	NA	NA	NA	NA	< 0.39	1.6 J	4.8 J	1.9 J	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA
Ethene	NS	NS	< 0.25	< 0.25	< 0.25	< 0.35	NA	NA	NA	NA	< 0.25	3.1 J	4.5 J	2.1 J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA
Methane	NS	NS	< 0.58	< 0.58	< 0.58	37.1	NA	NA	NA	NA	< 0.58	2.2 J	< 0.58	11.5	< 0.58	< 0.58	< 0.58	4.1	< 0.58	NA

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS PRE- AND POST-INJECTION Leather-Rich Inc.

Oconomowoc, Wisconsin

D	ES	PAL	MW-10	MW-11	MW-12		MV	V-13		MW-14	MW-15	M	W-16		MV	V-17		MW-18	MW-19	MW-20
Parameter	(μg/l)	(μg/l)	4/5/22	4/5/22	4/6/22	4/6/22	6/16/22	7/13/22	8/12/22	4/6/22	4/6/22	4/6/22	4/6/2022 DUP	4/6/22	6/16/22	7/13/22	8/12/22	4/5/22	4/5/22	4/5/22
	C	Collected by:	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	2.4	<u>8.8</u>	<u>36.2</u>	<u>58</u>	<u>42.3</u>	<u>41</u>	<u>34.5</u>	<u>15.8</u>	3	<u>6.6</u>	<u>6.3</u>	<u>57.7</u>	<u>58.7</u>	<u>66.2</u>	<u>67.6</u>	<u>93</u>	<u>6.4</u>	<u>106</u>
Trichloroethene	5	0.5	0.54 J	0.66	0.58 J	0.71 J	0.54 J	0.59 J	1.6	< 0.32	< 0.32	< 0.32	< 0.32	0.95 J	0.74 J	0.57 J	0.61 J	1.3	< 0.32	1.4J
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.44
cis-1,2-Dichloroethene	70	7	< 0.47	0.66J	< 0.47	< 0.47	< 0.47	< 0.47	15.1	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 1.2
trans-1,2-Dichloroethene	100	20	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 1.3
Sulfate	NS	NS	NA	NA	22,200	34,000	22,000	23,100	11,000	103,000	24,800	NA	NA	22,300	23,700	23,400	21,800	22,700	NA	17,400
Iron, Dissolved	NS	NS	NA	NA	< 56.7	< 56.7	< 29.6	92.8	< 56.7	< 56.7	< 56.7	NA	NA	< 56.7	< 29.6	< 29.6	565	90.3	NA	< 29.6
Total Organic Carbon	NS	NS	NA	NA	NA	1,500	1,300	1,800	2,200	1,200	1,100	NA	NA	1,300	2,600	2,200	5,300	1,400	NA	1,300
Ethane	NS	NS	NA	NA	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA	NA	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA	< 0.39
Ethene	NS	NS	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25
Methane	NS	NS	NA	NA	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	NA	NA	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	NA	< 0.58

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS PRE- AND POST-INJECTION

Leather-Rich Inc.

Oconomowoc, Wisconsin

Davisanskav	ES	PAL	MV	V-21	PZ-1	PZ-2	PZ-3
Parameter	(μg/l)	(μg/I)	4/5/22	4/5/2022 DUP	4/6/22	4/5/22	4/6/22
	С	ollected by:	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	<u>59.9</u>	<u>57.1</u>	< 0.41	<u>5.3</u>	1.6
Trichloroethene	5	0.5	< 0.32	< 0.32	< 0.32	1.2	< 0.32
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
trans-1,2-Dichloroethene	100	20	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
Sulfate	NS	NS	NA	NA	27,900	NA	5,000
Iron, Dissolved	NS	NS	NA	NA	< 56.7	NA	< 56.7
Total Organic Carbon	NS	NS	NA	NA	980	NA	5300
Ethane	NS	NS	NA	NA	< 0.39	NA	< 0.39
Ethene	NS	NS	NA	NA	< 0.25	NA	< 0.25
Methane	NS	NS	NA	NA	< 0.58	NA	< 0.58

Notes:

- 1. Samples were collected by GZA GeoEnvironmental, Inc. (GZA) and analyzed by PACE Analytical Lab, Inc. (PACE) of Green Bay, Wisconsin using United States Environmental Protection Agency (USEPA) Method 8260 for chlorinated volatile organic compounds, USEPA Method 6010D for dissolved iron, USEPA 8015B Modified for dissolved gases (ethane, ethene, and methane), Standard Method 300.0 for sulfate, and SM Method 5310C for total organic carbon (TOC).

 2. Results are presented in micrograms per liter (μg/l).
- 3. Results are compared to Wisconsin Administrative Code (WAC) Chapter NR 140 Enforcement Standards (ESs) and Preventive Action Limits (PALs). <u>Underlined Bold Red font</u> indicates the parameter was detected above the ES and *Bold italicized font* indicates the parameter was detected above the PAL.
- 4. "-" = The sample was not analyzed for the specified parameter.
- 5. Only results for compounds detected during laboratory analyses are presented.
 6. J = Estimated value. The analyte was detected at a concentration between the limit of detection (LOD) and limit of quantification (LOQ).
- 7. "NA" = Not Analyzed
- 8. "NS" = No Standard available under WAC NR 140.

TABLE 3 SUMMARY OF GROUNDWATER FIELD PARAMETERS PRE- AND POST-INJECTION Leather-Rich Inc.

Oconomowoc, Wisconsin

Well ID		MV	V-1		MW-2	MW-3	MW-4	MW-5		MV	V-6		MW-7				MW-8	MW-9	MW-10	MW-11
Date	4/6/2022	6/16/2022	7/13/2022	8/12/2022	4/6/2022	4/6/202	4/6/2022	4/5/2022	4/5/2022	6/16/2022	7/13/2022	8/12/2022	4/5/2022	6/16/2022	7/13/2022	8/12/2022	4/5/2022	4/5/2022	4/5/2022	4/5/2022
Depth to Water (ft btoc)	22.76	17.27	16.89	17.56	17.81	18.58	11.36	17.8	18.81	17.19	16.78	17.46	18.88	17.25	16.85	17.53	18.96	19.06	14.45	19.03
DO (mg/L)	7.96	0.32	0	2.2	6.42	8.15	10	7.87	8.52	0.32	0	2.24	8.99	0.33	0	1.61	8.33	7.25	5.82	7.02
ORP (mV)	35.8	-140	-227	-162	180	22.8	254.3	107.3	199	-103	-130	-93	203	-77	-157	-150	196	185	191	191
Conductivity (mS/cm)	1.052	1.05	1.04	1.22	1.05	1.29	0.601	2.1	0.779	0.921	1.62	1.62	0.791	1.03	1.03	1.09	1.02	1.08	0.801	0.954
Temperature (°C)	12.6	25.41	25.49	21.1	11.98	10.5	8.6	12.1	12.77	26.04	24.03	22.74	11.75	25	26.69	22.46	11.64	17.19	18.18	15.15
pH (s.u.)	7.29	7.72	7.68	6.45	7	7.21	7.76	7.47	6.02	7.58	6.45	5.97	6.28	7.41	7.4	6.76	6.54	7.09	7.1	7

TABLE 3
SUMMARY OF GROUNDWATER FIELD PARAMETERS
PRE- AND POST-INJECTION
Leather-Rich Inc.

Oconomowoc, Wisconsin

Well ID	MW-12		MV	V-13		MW-14	MW-15	MW-16		MW	V-17		MW-18	MW-19	MW-20	MW-21	PZ-1	PZ-2	PZ-3
Date	4/6/2022	4/6/2022	6/16/2022	7/13/2022	8/12/2022	4/6/2022	4/6/2022	4/6/2022	4/6/2022	6/16/2022	7/13/2022	8/12/2022	4/5/2022	4/5/2022	4/5/2022	4/5/2022	4/6/2022	4/5/2022	4/6/2022
Depth to Water (ft btoc)	18.34	18.36	16.62	16.42	17.14	17.36	17.75	17.18	18.01	16.15	16.1	16.85	17.59	17	17.1	15.38	18.66	18.89	18.25
DO (mg/L)	7.08	4.7	1.23	0	1.78	9.19	6.92	10.41	4.39	0.34	0	4.33	6.7	4.64	7.48	7.06	5.85	6.23	8.21
ORP (mV)	173	167	51	-23	33	200	34.6	220.6	172	47	1	-63	28.7	112.9	118.8	169.5	29	189	161
Conductivity (mS/cm)	1.11	1.06	0.928	1.11	1.12	0.903	1.426	1.765	1.11	1.13	1.13	1.04	1.944	2.929	1.372	1.426	1.807	1.26	0.405
Temperature (°C)	12.99	12.99	26.7	25.41	20.92	12.67	11.5	11.6	12.88	24.65	22.7	20.34	11.8	11.8	14.2	12.7	13.6	17.66	12.95
pH (s.u.)	7.17	7.02	7.86	7.46	6.71	6.98	7.25	7.38	7.01	8	7.42	6.64	7.12	7.36	7.26	7.1	7.18	6.97	7.39

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS DURING ERD INJECTION IMPLEMENTATION
Leather-Rich Inc., Oconomowoc, WI

		5/2/2022			5/3/2022			5/4/2022	
Well	Beginning	Middle	End	Beginning	Middle	End	Beginning	Middle	End
		WL (ft BTOC)			WL (ft BTOC)			WL (ft BTOC)	
MW-1	18.24	18.2	18.19	18.25	18.24	18.2	18.16	18.1	18.11
MW-2	17.2	17.2	17.19	17.21	17.23	17.2	17.11	17.11	17.07
MW-6	18.1	18.1	18.1	18.15	18.09	18.06	18.03	18	18.02
MW-7	18.16	18.14	18.14	18.17	18.15	18.12	18.07	18.06	18.04
MW-8	18.23	18.25	18.22	18.24	18.22	18.2	18.18	18.11	18.15
MW-9	18.33	18.34	18.34	18.35	18.36	18.31	18.25	18.25	18.26
MW-11	18.31	18.29	18.31	18.31	18.29	18.27	18.22	18.19	18.2
MW-14	16.66	16.66	16.66	16.72	16.66	16.66	16.57	16.6	16.54
MW-15	17.18	17.14	17.15	17.19	17.16	17.14	17.08	17.1	17.05
MW-17									
MW-18	17.1	17.1	17.1	17.2	17.18	17.07	16.94	16.92	16.9
MW-20	16.65	16.69	16.7	16.75	16.68	16.6	16.44	16.42	16.38
PZ-1	18.15	18.09	18.1	18.15	18.11	18.06	18.04	17.99	18.01
PZ-2	18.2	18.2	18.19	18.21	18.19	18.15	18.14	18.09	18.05

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS DURING ERD INJECTION IMPLEMENTATION
Leather-Rich Inc., Oconomowoc, WI

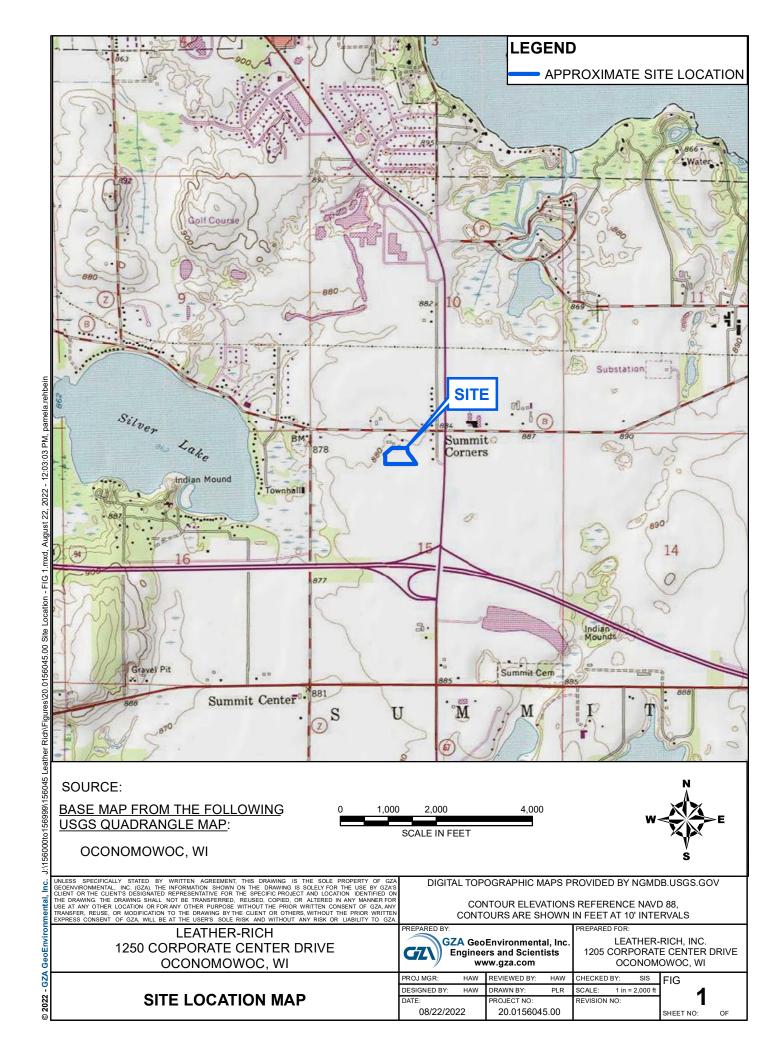
Well	5/5/2022			5/6/2022			5/9/2022		
	Beginning	Middle	End	Beginning	Middle	End	Beginning	Middle	End
	WL (ft BTOC)			WL (ft BTOC)			WL (ft BTOC)		
MW-1	18.1	18.1	18.09	18.11	18.12		18.19	18.16	18.15
MW-2	17.08	17.06	17.03	17.1	17.1		17.19	17.19	17.16
MW-6	18.01	17.96	17.96	17.99	18		18.1	18	18.03
MW-7	18.02	18.05	18.02	18.09	18.08		18.15	18.09	18.06
MW-8	18.16	18.1	18.12	18.15	18.14		18.23	18.18	18.19
MW-9	18.2	18.2	18.2	18.25	18.23		18.32	18.3	18.3
MW-11	18.18	18.16	18.16	18.19	18.19		18.25	18.23	18.23
MW-14	16.56	16.53	16.56	16.59	16.56		16.65	16.65	16.63
MW-15	17.05	17.03	17.05	17.06	17.04		17.11	17.11	17.1
MW-17									
MW-18	16.98	16.97	16.98	17.05	17.05		17.15	17.15	17.15
MW-20	16.5	16.51	16.53	16.6	16.61		16.72	16.72	16.74
PZ-1		17.97	17.95	18	18		18.09	18.06	18.01
PZ-2	18.18	18.07	18.04	18.08	18.07		18.15	18.15	18.13

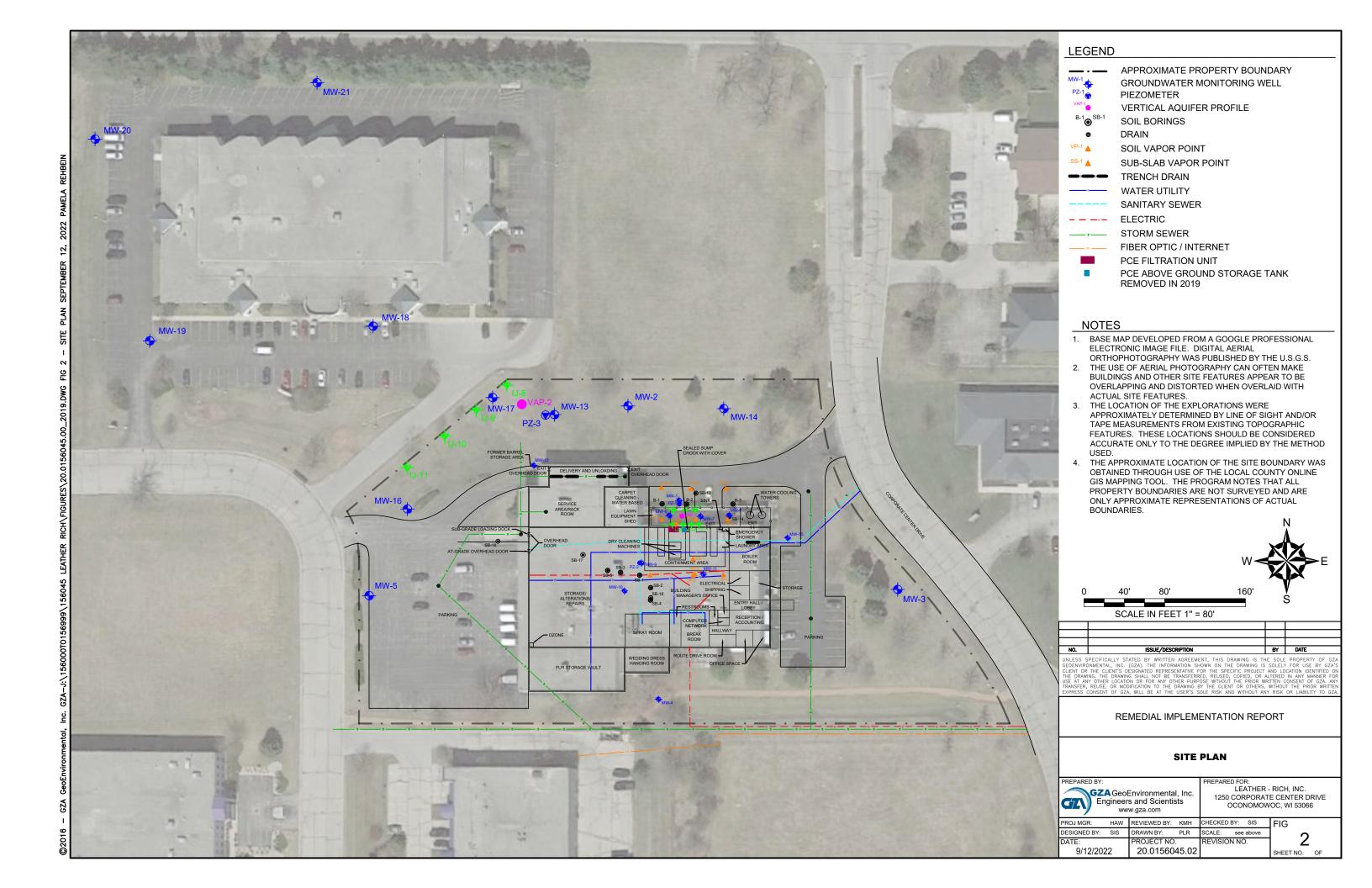
TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS DURING ERD INJECTION IMPLEMENTATION
Leather-Rich Inc., Oconomowoc, WI

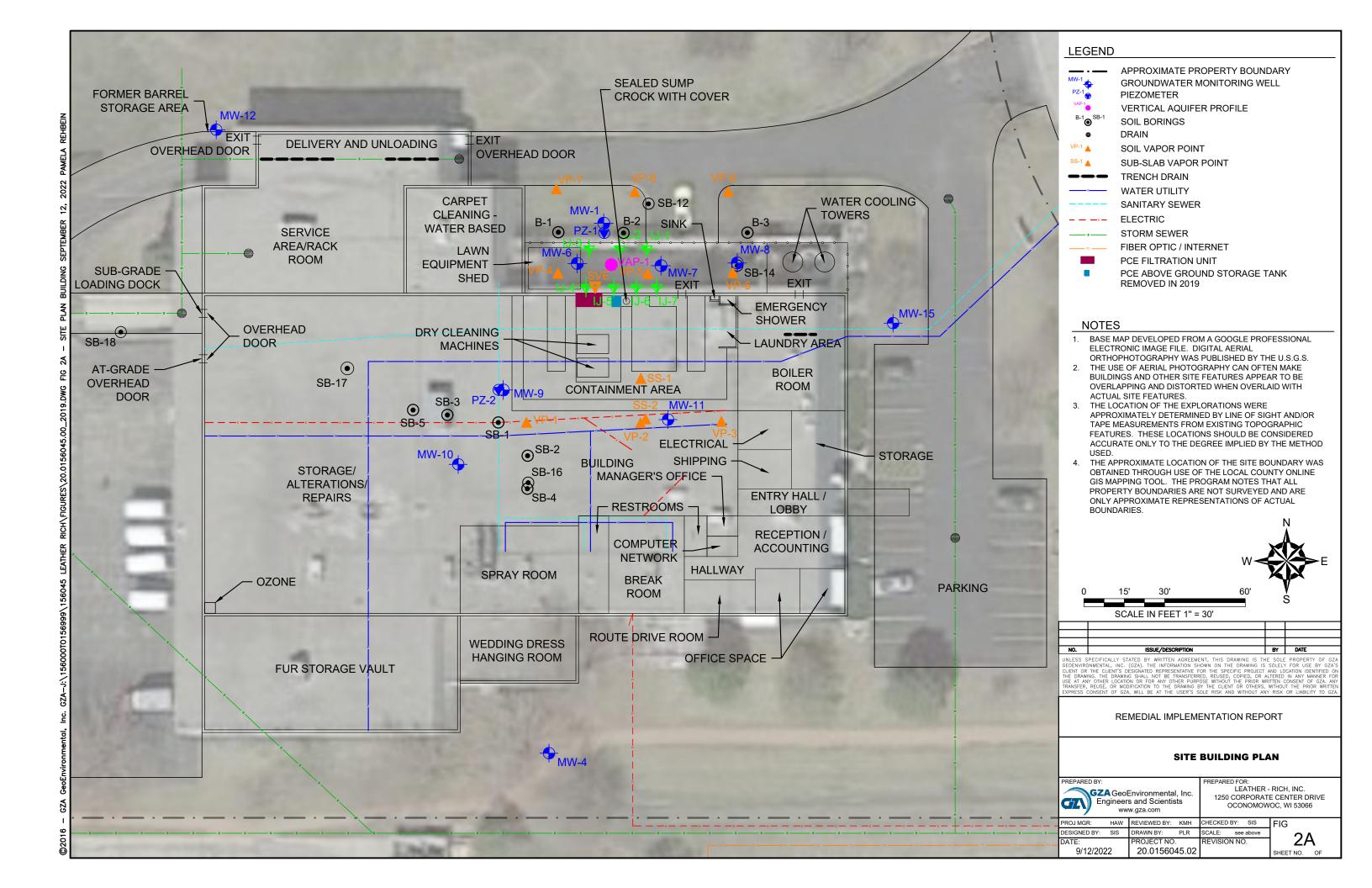
Well	5/10/2022				5/11/2022		5/12/2022		
	Beginning	Middle	End	Beginning	Middle	End	Beginning	Middle	End
	WL (ft BTOC)			WL (ft BTOC)			WL (ft BTOC)		
MW-1		18.22		18.23	18.21	18.21	18.22	18.19	18.19
MW-2		17.19		17.2	17.2	17.2	17.21	17.21	17.2
MW-6		18.08		18.11	18.09	18.1	18.1	18.1	18.1
MW-7		18.19		18.19	18.15	18.2	18.2	18.15	18.15
MW-8		18.22		18.25	18.25	18.26	18.28	18.23	18.24
MW-9		18.34		18.34	18.34	18.33	18.35	18.34	18.32
MW-11		18.28		18.3	18.28	18.27	18.1	18.3	18.29
MW-14		16.67		16.69	16.67	16.69	16.7	16.65	16.69
MW-15		17.14		17.14	17.1	17.14	17.13	17.11	17.14
MW-17		17.5		17.55	17.54	17.52	17.55	17.54	17.55
MW-18		17.16		17.2	17.17	17.2	17.21	17.16	17.21
MW-20		16.78		16.8	16.75	16.8	16.8	16.76	16.77
PZ-1		18.11		18.12	18.1	18.11	18.14	18.12	18.12
PZ-2		18.2		18.25	18.18	18.19	18.2	18.19	18.2

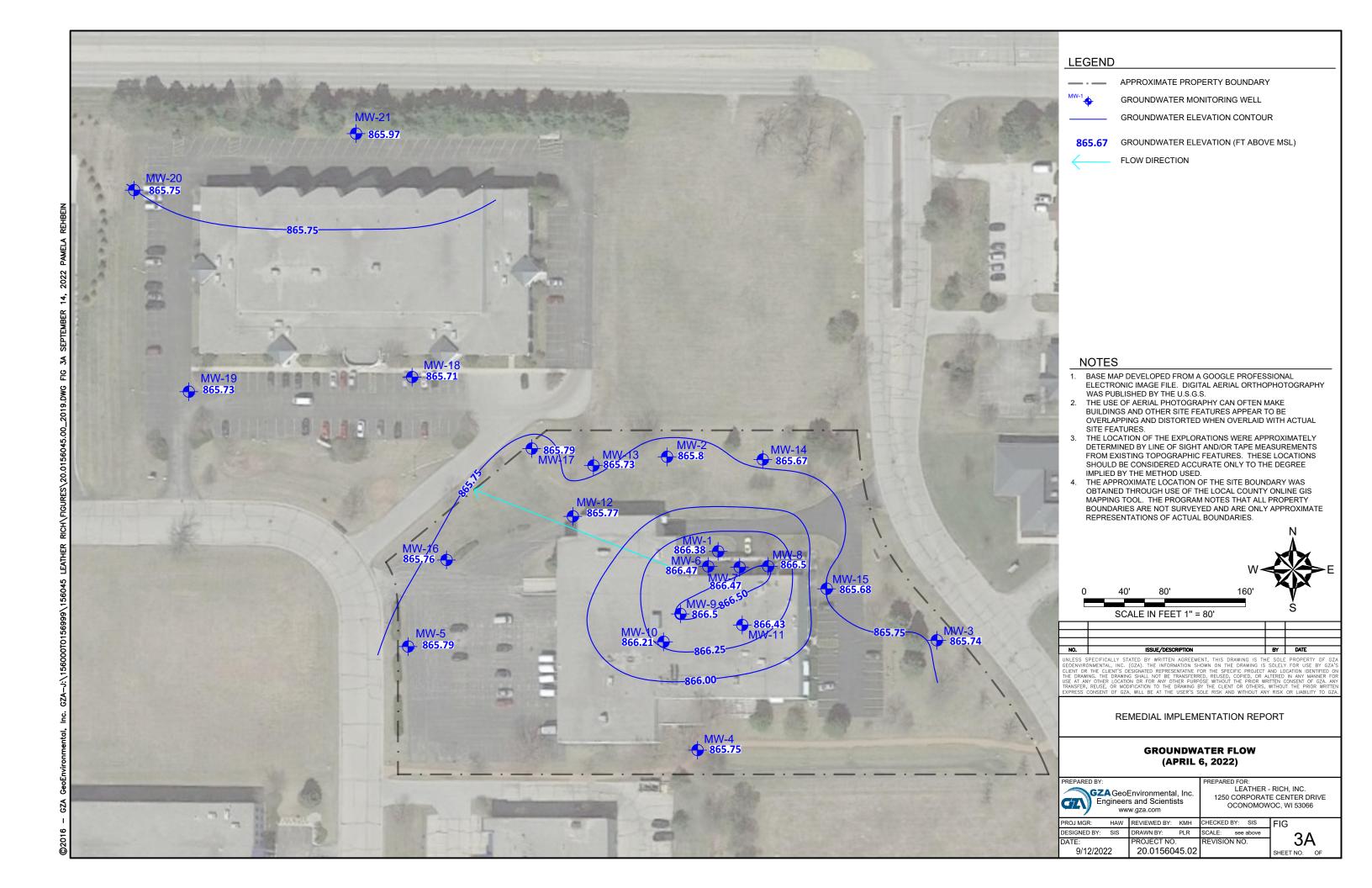


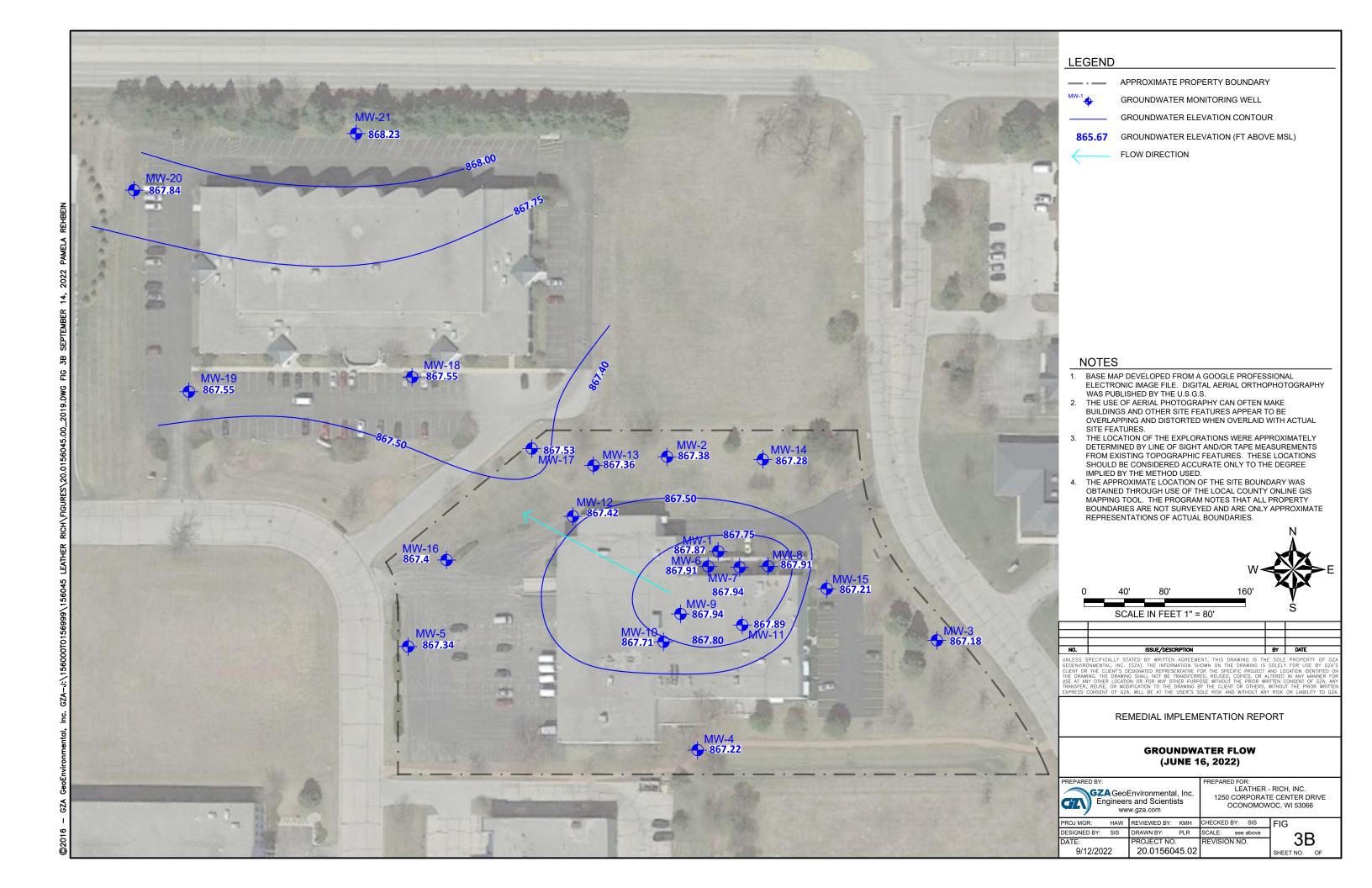
FIGURES

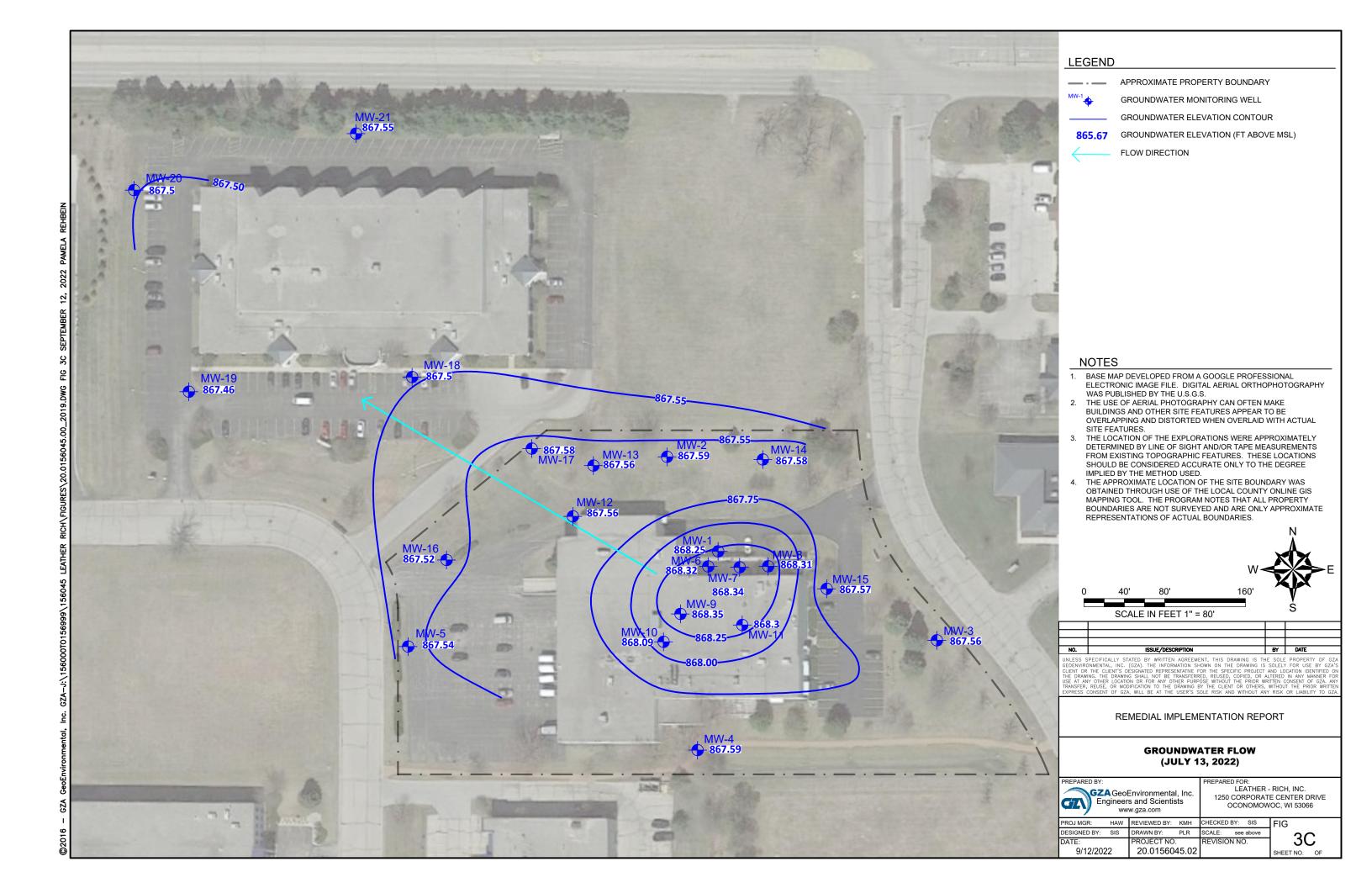


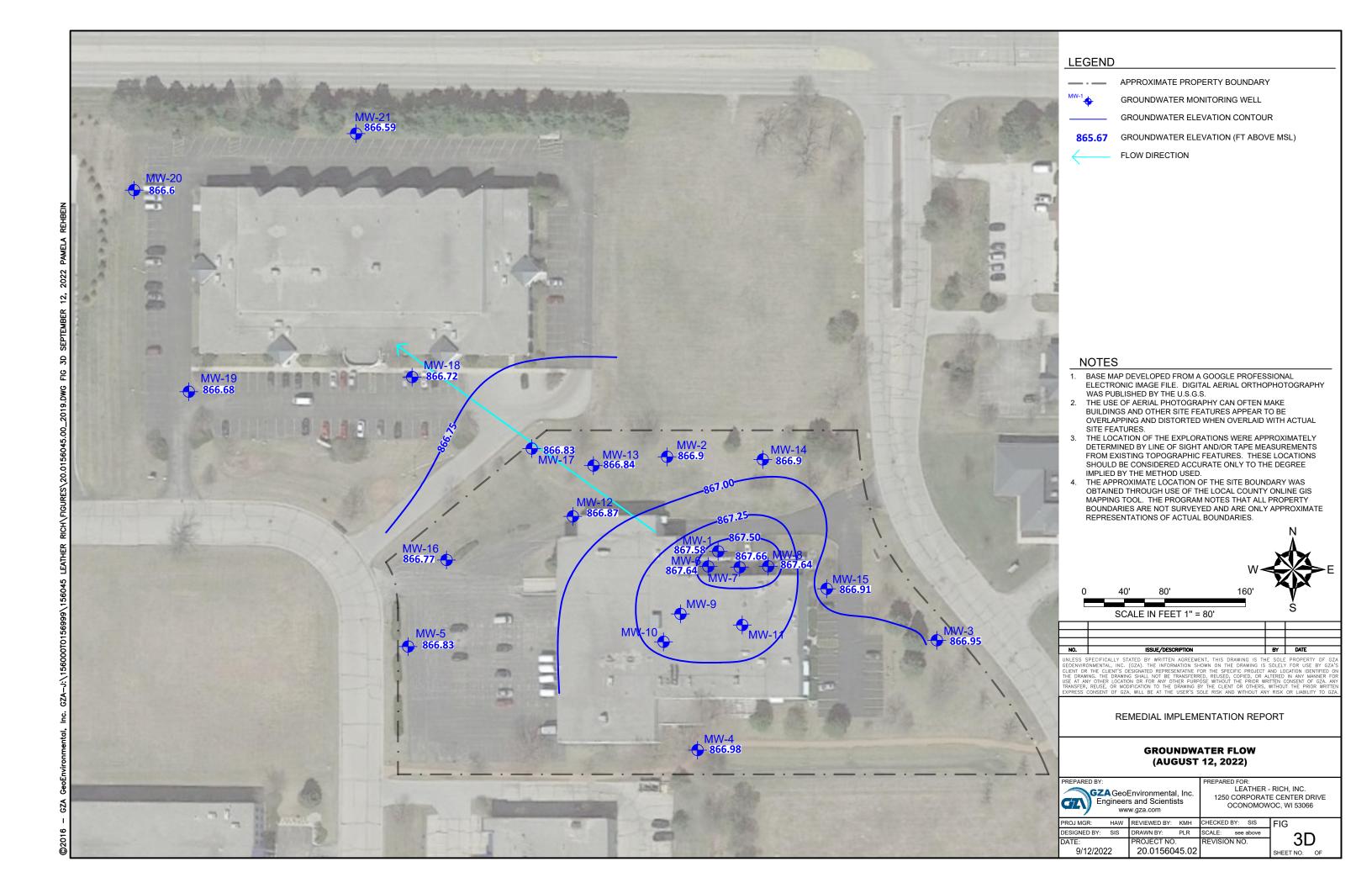


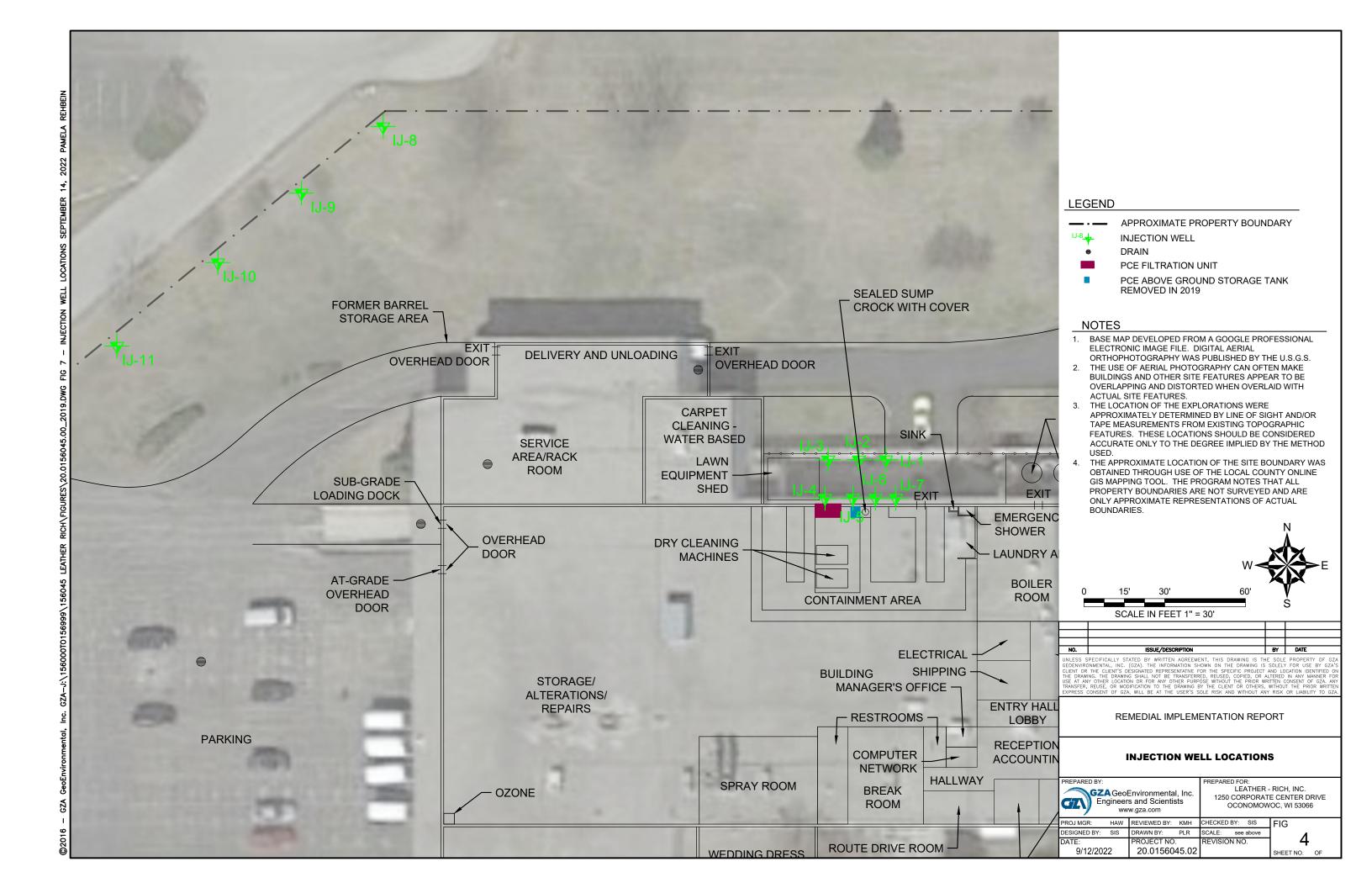


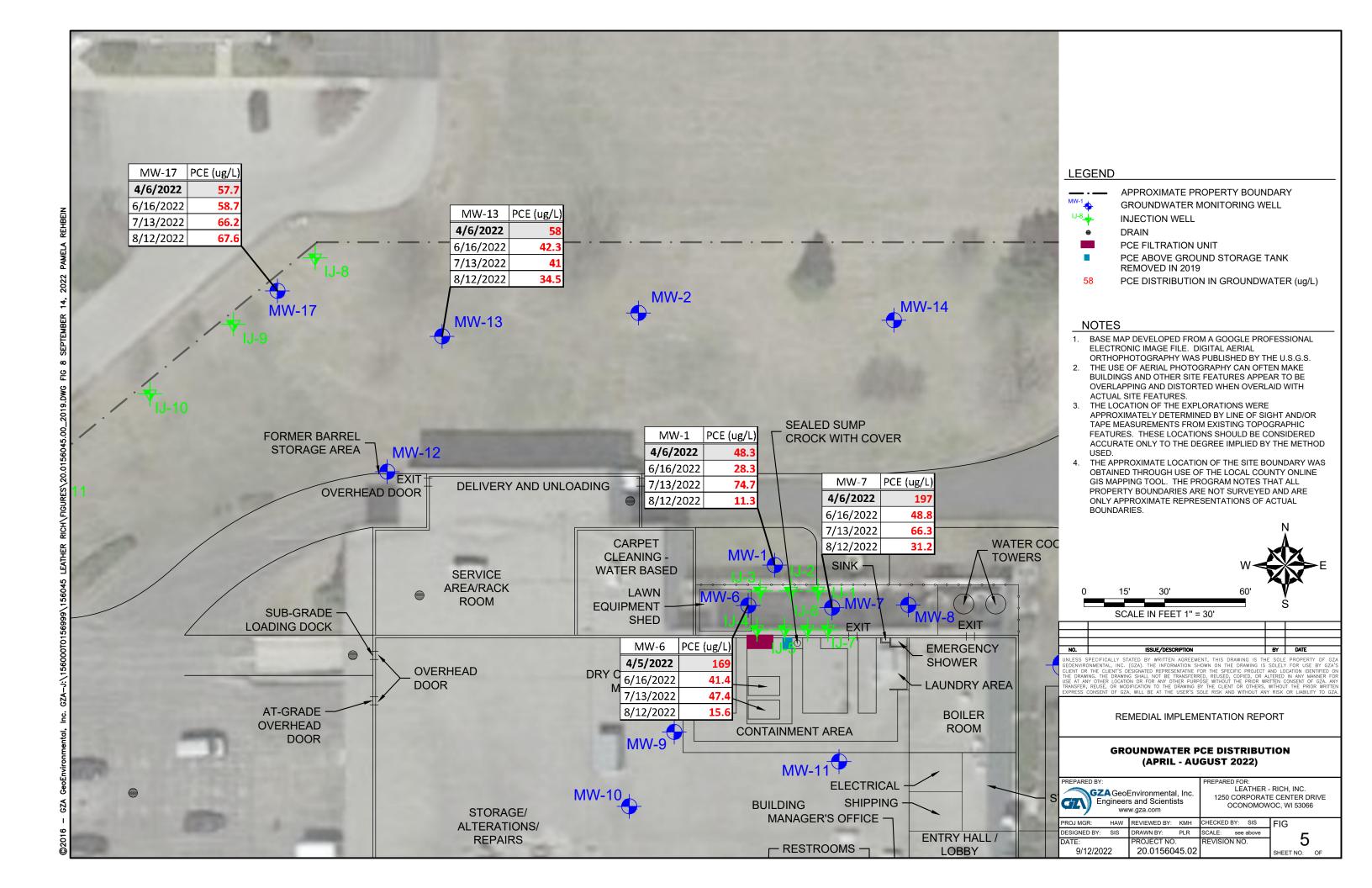








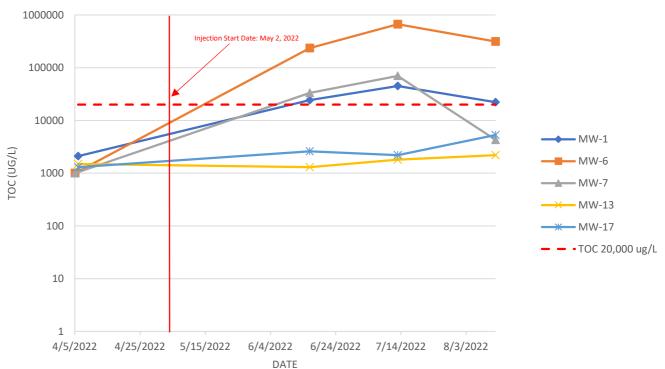




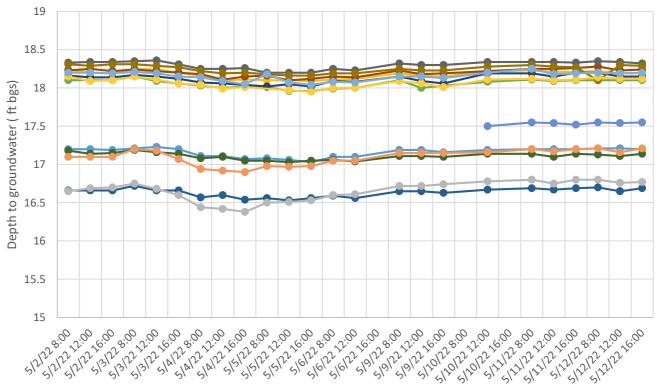


GRAPHS

GRAPH 1 TOC VS TIME



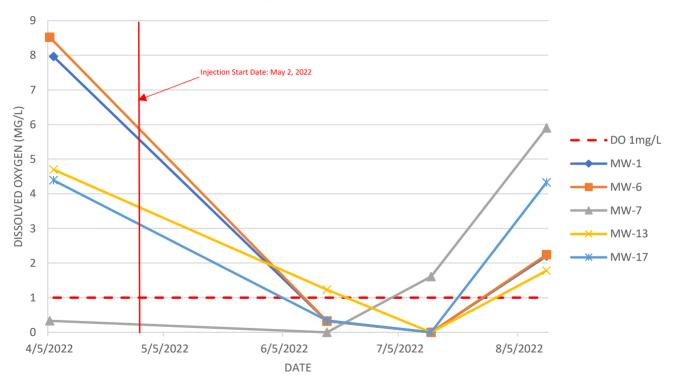
GRAPH 2 - GROUNDWATER LEVELS DURING INJECTIONS



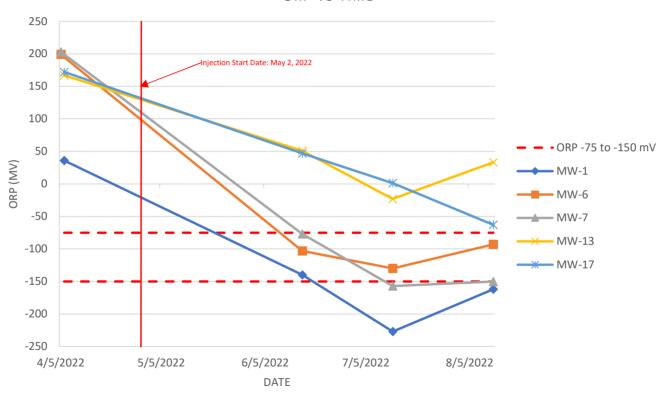
Date and Time of Measurement



GRAPH 3
DISSOLVED OXYGEN VS TIME



GRAPH 4 ORP VS TIME



GRAPH 5
DISSOLVED IRON VS TIME



GRAPH 6 SULFATE VS TIME





APPENDIX A

LIMITATIONS



LIMITATIONS

Standard of Care

- 1. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
- 2. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
- 3. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

Subsurface Conditions

- 4. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.
- 5. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

Compliance with Codes and Regulations

6. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

Screening and Analytical Testing

- 7. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
- 8. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
- 9. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.



Interpretation of Data

10. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

Additional Information

11. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

Additional Services

12. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.



APPENDIX B

PRE-INJECTION GROUNDWATER LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS





April 13, 2022

Kevin Hedinger GZA 17975 West Sarah Lane Suite 100 Brookfield, WI 53045

RE: Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on April 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

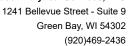
Christopher Hyska christopher.hyska@pacelabs.com

Chushpher Hyska

(920)469-2436 Project Manager

Enclosures







CERTIFICATIONS

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40242989001	MW-6	Water	04/05/22 10:45	04/06/22 08:00
40242989002	MW-7	Water	04/05/22 11:40	04/06/22 08:00
40242989003	MW-8	Water	04/05/22 12:25	04/06/22 08:00
40242989004	MW-11	Water	04/05/22 13:25	04/06/22 08:00
40242989005	MW-9	Water	04/05/22 14:05	04/06/22 08:00
40242989006	PZ-2	Water	04/05/22 14:35	04/06/22 08:00
40242989007	MW-10	Water	04/05/22 15:12	04/06/22 08:00
40242989008	MW-18	Water	04/05/22 12:01	04/06/22 08:00
40242989009	MW-19	Water	04/05/22 12:48	04/06/22 08:00
40242989010	MW-20	Water	04/05/22 13:45	04/06/22 08:00
40242989011	MW-21	Water	04/05/22 00:00	04/06/22 08:00
40242989012	MW-5	Water	04/05/22 15:17	04/06/22 08:00
40242989013	DUP-1	Water	04/05/22 00:00	04/06/22 08:00
40242989014	TRIP	Water	04/05/22 00:00	04/06/22 08:00



SAMPLE ANALYTE COUNT

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40242989001	MW-6	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40242989002	MW-7	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
10242989003	MW-8	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
10242989004	MW-11	EPA 8260	EIB	8	PASI-G
10242989005	MW-9	EPA 8260	EIB	8	PASI-G
10242989006	PZ-2	EPA 8260	EIB	8	PASI-G
10242989007	MW-10	EPA 8260	EIB	8	PASI-G
10242989008	MW-18	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
10242989009	MW-19	EPA 8260	EIB	8	PASI-G
10242989010	MW-20	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
10242989011	MW-21	EPA 8260	EIB	8	PASI-G
40242989012	MW-5	EPA 8260	EIB	8	PASI-G
40242989013	DUP-1	EPA 8260	EIB	8	PASI-G
40242989014	TRIP	EPA 8260	EIB	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
0242989001	MW-6					
EPA 8260	Tetrachloroethene	169	ug/L	2.0	04/12/22 09:53	
EPA 8260	Trichloroethene	7.5	ug/L	2.0	04/12/22 09:53	
EPA 8260	cis-1,2-Dichloroethene	20.5	ug/L	2.0	04/12/22 09:53	
EPA 8260	trans-1,2-Dichloroethene	2.2	ug/L	2.0	04/12/22 09:53	
EPA 300.0	Sulfate	17.8	mg/L	2.0	04/11/22 06:01	
SM 5310C	Total Organic Carbon	1.0	mg/L	0.50	04/11/22 03:58	
0242989002	MW-7					
PA 8260	Tetrachloroethene	197	ug/L		04/11/22 14:02	
PA 8260	Trichloroethene	19.3	ug/L	1.0	04/11/22 14:02	
PA 8260	cis-1,2-Dichloroethene	64.7	ug/L	1.0	04/11/22 14:02	
PA 8260	trans-1,2-Dichloroethene	4.7	ug/L	1.0	04/11/22 14:02	
PA 300.0	Sulfate	18.7	mg/L	2.0	04/11/22 06:16	
SM 5310C	Total Organic Carbon	1.0	mg/L	0.50	04/11/22 05:29	
0242989003	MW-8					
PA 8260	Tetrachloroethene	106	ug/L	1.0	04/11/22 14:23	
EPA 8260	Trichloroethene	4.4	ug/L	1.0	04/11/22 14:23	
PA 8260	cis-1,2-Dichloroethene	10.9	ug/L	1.0	04/11/22 14:23	
PA 8260	trans-1,2-Dichloroethene	0.84J	ug/L	1.0	04/11/22 14:23	
EPA 300.0	Sulfate	20.7	mg/L	2.0	04/11/22 06:31	
SM 5310C	Total Organic Carbon	1.1	mg/L	0.50	04/11/22 05:45	
0242989004	MW-11					
EPA 8260	Tetrachloroethene	8.8	ug/L	1.0	04/11/22 14:43	
PA 8260	Trichloroethene	0.66J	ug/L	1.0	04/11/22 14:43	
PA 8260	cis-1,2-Dichloroethene	0.66J	ug/L	1.0	04/11/22 14:43	
242989005	MW-9					
PA 8260	Tetrachloroethene	49.1	ug/L	1.0	04/11/22 15:03	
PA 8260	Trichloroethene	9.6	ug/L	1.0	04/11/22 15:03	
PA 8260	cis-1,2-Dichloroethene	25.7	ug/L	1.0	04/11/22 15:03	
PA 8260	trans-1,2-Dichloroethene	2.3	ug/L	1.0	04/11/22 15:03	
0242989006	PZ-2					
EPA 8260	Tetrachloroethene	5.3	ug/L	1.0	04/11/22 16:36	
EPA 8260	Trichloroethene	1.2	ug/L	1.0	04/11/22 16:36	
0242989007	MW-10					
PA 8260	Tetrachloroethene	2.4	ug/L	1.0	04/11/22 16:57	
EPA 8260	Trichloroethene	0.54J	ug/L	1.0	04/11/22 16:57	
0242989008	MW-18					
PA 6010D	Iron, Dissolved	90.3J	ug/L	100	04/07/22 16:35	
PA 8260	Tetrachloroethene	93.0	ug/L	1.0	04/11/22 17:17	
PA 8260	Trichloroethene	1.3	ug/L	1.0	04/11/22 17:17	
EPA 300.0	Sulfate	22.7	mg/L		04/11/22 06:46	
SM 5310C	Total Organic Carbon	1.4	mg/L	0.50	04/11/22 06:02	



SUMMARY OF DETECTION

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40242989009	MW-19					
EPA 8260	Tetrachloroethene	6.4	ug/L	1.0	04/11/22 19:00	
40242989010	MW-20					
EPA 8260	Tetrachloroethene	106	ug/L	2.5	04/11/22 19:41	
EPA 8260	Trichloroethene	1.4J	ug/L	2.5	04/11/22 19:41	
EPA 300.0	Sulfate	17.4	mg/L	2.0	04/11/22 07:01	
SM 5310C	Total Organic Carbon	1.3J	mg/L	1.5	04/11/22 14:24	D3
10242989011	MW-21					
EPA 8260	Tetrachloroethene	59.9	ug/L	1.0	04/11/22 17:38	
10242989012	MW-5					
EPA 8260	Tetrachloroethene	0.62J	ug/L	1.0	04/12/22 08:10	
10242989013	DUP-1					
EPA 8260	Tetrachloroethene	57.1	ug/L	1.0	04/11/22 18:19	



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

Sample: MW-6	Lab ID:	40242989001	Collected	d: 04/05/2	2 10:45	Received: 04	1/06/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
									
Methane, Ethane, Ethene GCV	-	Method: EPA 8 ytical Services							
Ethane	<0.39	ug/L	5.6	0.39	1		04/12/22 11:56	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		04/12/22 11:56		
Methane	<0.58	ug/L	2.8	0.58	1		04/12/22 11:56	74-82-8	
6010D MET ICP, Dissolved		Method: EPA 6							
	Pace Anal	ytical Services	- Green Bay	/					
Iron, Dissolved	<29.6	ug/L	100	29.6	1		04/07/22 16:20	7439-89-6	
8260 MSV	Analytical	Method: EPA 8	3260						
	Pace Anal	ytical Services	- Green Bay	/					
Tetrachloroethene	169	ug/L	2.0	0.82	2		04/12/22 09:53	127-18-4	
Trichloroethene	7.5	ug/L	2.0	0.64	2		04/12/22 09:53		
Vinyl chloride	<0.35	ug/L	2.0	0.35	2		04/12/22 09:53		
cis-1,2-Dichloroethene	20.5	ug/L	2.0	0.94	2		04/12/22 09:53	156-59-2	
trans-1,2-Dichloroethene	2.2	ug/L	2.0	1.1	2		04/12/22 09:53	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		04/12/22 09:53		
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		2		04/12/22 09:53		
Toluene-d8 (S)	99	%	70-130		2		04/12/22 09:53	2037-20-5	
300.0 IC Anions	•	Method: EPA 3 ytical Services		/					
Sulfate	17.8	mg/L	2.0	0.44	1		04/11/22 06:01	14808-79-8	
5310C TOC	Analytical	Method: SM 53	2100						
55 TOC TOC	=	ytical Services		/					
Total Organic Carbon	1.0	, mg/L	0.50	0.14	1		04/11/22 03:58	7440-44-0	
Sample: MW-7	Lab ID:	40242989002	Collected	d: 04/05/2	2 11:40	Received: 04	1/06/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	3015B Modifi	ied					
	Pace Analy	ytical Services	- Green Bay	/					
Ethane	<0.39	ug/L	5.6	0.39	1		04/08/22 13:41	74-84-0	
Ethene	<0.25	ug/L ug/L	5.0	0.35	1		04/08/22 13:41		
Methane	<0.58	ug/L	2.8	0.58	1		04/08/22 13:41		
6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D						
	Pace Anal	ytical Services	- Green Bay	/					
Iron, Dissolved	<29.6	ug/L	100	29.6	1		04/07/22 16:27	7439-89-6	
, 2.00000	720.0	~ ₃ , –	100	20.0	•		5 5ZE 15.ZI		



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

Sample: MW-7	Lab ID:	40242989002	Collected	d: 04/05/22	2 11:40	Received: 04	/06/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Anal	ytical Services	- Green Bay	/					
Tetrachloroethene	197	ug/L	1.0	0.41	1		04/11/22 14:02	127-18-4	
Trichloroethene	19.3	ug/L	1.0	0.32	1		04/11/22 14:02		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/11/22 14:02	75-01-4	
cis-1,2-Dichloroethene	64.7	ug/L	1.0	0.47	1		04/11/22 14:02	156-59-2	
trans-1,2-Dichloroethene	4.7	ug/L	1.0	0.53	1		04/11/22 14:02	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/11/22 14:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/11/22 14:02	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		04/11/22 14:02	2037-26-5	
300.0 IC Anions	Analytical	Method: EPA 3	0.00						
	Pace Anal	ytical Services	- Green Bay	/					
Sulfate	18.7	mg/L	2.0	0.44	1		04/11/22 06:16	14808-79-8	
5310C TOC	Analytical	Method: SM 53	10C						
33.33.33	-	ytical Services		/					
Total Organic Carbon	1.0	, mg/L	0.50	0.14	1		04/11/22 05:29	7440-44-0	
Sample: MW-8	Lab ID:	40242989003	Collected	d: 04/05/22	2 12:25	Received: 04	/06/22 08:00 Ma	atrix: Water	
Sample: MW-8 Parameters	Lab ID:	40242989003 Units	Collected	d: 04/05/22	2 12:25 DF	Received: 04	./06/22 08:00 Ma	atrix: Water CAS No.	Qua
·	Results Analytical		LOQ 015B Modifi	LOD ied					Qua
Parameters Methane, Ethane, Ethene GCV	Results Analytical Pace Anal	Units Method: EPA 8 ytical Services	LOQ — 015B Modifi - Green Bay	LOD ied	DF		Analyzed	CAS No.	Qua
Parameters Methane, Ethane, Ethene GCV Ethane	Results Analytical Pace Analytical <0.39	Units	LOQ 015B Modifi - Green Bay 5.6	LOD ied /	DF 1		Analyzed 04/08/22 13:48	CAS No.	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene	Results Analytical Pace Anal	Units Method: EPA 8 ytical Services	LOQ — 015B Modifi - Green Bay	LOD ied	DF		Analyzed	CAS No. 74-84-0 74-85-1	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane	Analytical Pace Analy <0.39 <0.25 <0.58	Units – Method: EPA 8 ytical Services ug/L ug/L	LOQ 015B Modifi - Green Bay 5.6 5.0 2.8	LOD fied / 0.39 0.25	DF 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48	CAS No. 74-84-0 74-85-1	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane	Analytical Pace Analy <0.39 <0.25 <0.58 Analytical	Units — ——————————————————————————————————	LOQ — — — — — — — — — — — — — — — — — — —	LOD fied / 0.39 0.25 0.58	DF 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48	CAS No. 74-84-0 74-85-1	Qua
Parameters	Analytical Pace Analy <0.39 <0.25 <0.58 Analytical	Units — — — — — — — — — — — — — — — — — — —	LOQ — — — — — — — — — — — — — — — — — — —	LOD fied / 0.39 0.25 0.58	DF 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48	74-84-0 74-85-1 74-82-8	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved	Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Pace Analytical <29.6	Units — — — — — — — — — — — — — — — — — — —	LOQ — — — — — — — — — — — — — — — — — — —	LOD ied / 0.39 0.25 0.58	DF 1 1 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48	74-84-0 74-85-1 74-82-8	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved	Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Analytical Analytical	Units Method: EPA 8 ytical Services ug/L ug/L ug/L Method: EPA 6 ytical Services	LOQ	LOD ied 0.39 0.25 0.58	DF 1 1 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48	74-84-0 74-85-1 74-82-8	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved	Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Pace Analytical Pace Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services	LOQ 015B Modifit - Green Bay 5.6 5.0 2.8 010D - Green Bay 100 260 - Green Bay	LOD ied / 0.39 0.25 0.58	DF 1 1 1 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48 04/07/22 16:32	74-84-0 74-85-1 74-82-8 7439-89-6	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene	Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Pace Analytical Pace Analytical Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L	LOQ	LOD ied / 0.39 0.25 0.58 / 29.6	DF 1 1 1 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48 04/07/22 16:32	74-84-0 74-85-1 74-82-8 7439-89-6	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 5010D MET ICP, Dissolved ron, Dissolved 3260 MSV Tetrachloroethene Trichloroethene	Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Pace Analytical Pace Analytical Analytical Pace Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L ug/L	LOQ — 015B Modification	LOD ied / 0.39 0.25 0.58 / 29.6 / 0.41 0.32	DF 1 1 1 1 1 1 1 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48 04/07/22 16:32 04/11/22 14:23 04/11/22 14:23	74-84-0 74-85-1 74-82-8 7439-89-6	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride	Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L ug/L ug/L	LOQ — — — — — — — — — — — — — — — — — — —	LOD ied 0.39 0.25 0.58 29.6 0.41 0.32 0.17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48 04/07/22 16:32 04/11/22 14:23 04/11/22 14:23 04/11/22 14:23	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved B260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene	Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L ug/L ug/L ug/L ug/L	LOQ — — — — — — — — — — — — — — — — — — —	LOD ied 0.39 0.25 0.58 29.6 0.41 0.32 0.17 0.47	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48 04/07/22 16:32 04/11/22 14:23 04/11/22 14:23 04/11/22 14:23 04/11/22 14:23	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene	Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L ug/L ug/L	LOQ — — — — — — — — — — — — — — — — — — —	LOD ied 0.39 0.25 0.58 29.6 0.41 0.32 0.17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48 04/07/22 16:32 04/11/22 14:23 04/11/22 14:23 04/11/22 14:23	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates	Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L ug/L ug/L ug/L ug/L	LOQ — — — — — — — — — — — — — — — — — — —	LOD ied 0.39 0.25 0.58 29.6 0.41 0.32 0.17 0.47	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48 04/07/22 16:32 04/11/22 14:23 04/11/22 14:23 04/11/22 14:23 04/11/22 14:23	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved	Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	LOQ	LOD ied 0.39 0.25 0.58 29.6 0.41 0.32 0.17 0.47	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		04/08/22 13:48 04/08/22 13:48 04/08/22 13:48 04/08/22 13:48 04/07/22 16:32 04/11/22 14:23 04/11/22 14:23 04/11/22 14:23 04/11/22 14:23	74-84-0 74-85-1 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5 460-00-4	Qua

REPORT OF LABORATORY ANALYSIS

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Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

Sample: MW-8	Lab ID:	40242989003	Collected	04/05/2	2 12:25	Received: 04	I/06/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical	Method: EPA 3	0.00						
	Pace Ana	lytical Services	- Green Bay						
Sulfate	20.7	mg/L	2.0	0.44	1		04/11/22 06:31	14808-79-8	
5310C TOC	Analytical	Method: SM 53	10C						
	Pace Ana	lytical Services	- Green Bay						
Total Organic Carbon	1.1	mg/L	0.50	0.14	1		04/11/22 05:45	7440-44-0	
Sample: MW-11	Lab ID:	40242989004	Collected	: 04/05/2	2 13:25	Received: 04	1/06/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
OOCO MCV	Analytical	Method: EPA 8					_	-	
8260 MSV	•	lytical Services							
		•	-						
Tetrachloroethene	8.8	ug/L	1.0	0.41	1		04/11/22 14:43		
Trichloroethene	0.66J	ug/L	1.0	0.32	1		04/11/22 14:43		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/11/22 14:43		
cis-1,2-Dichloroethene	0.66J	ug/L	1.0	0.47	1		04/11/22 14:43		
trans-1,2-Dichloroethene Surrogates	<0.53	ug/L	1.0	0.53	1		04/11/22 14:43	156-60-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		04/11/22 14:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/11/22 14:43	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		04/11/22 14:43	2037-26-5	
Sample: MW-9	Lab ID:	40242989005	Collected	04/05/2	2 14:05	Received: 04	4/06/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Ana	lytical Services	- Green Bay						
Tetrachloroethene	49.1	ug/L	1.0	0.41	1		04/11/22 15:03	127-18-4	
Trichloroethene	9.6	ug/L	1.0	0.32	1		04/11/22 15:03	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/11/22 15:03	75-01-4	
cis-1,2-Dichloroethene	25.7	ug/L	1.0	0.47	1		04/11/22 15:03	156-59-2	
trans-1,2-Dichloroethene Surrogates	2.3	ug/L	1.0	0.53	1		04/11/22 15:03	156-60-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		04/11/22 15:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/11/22 15:03		



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

Sample: PZ-2	Lab ID:	40242989006	Collected	I: 04/05/2	2 14:35	Received: 04	1/06/22 08:00 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Anal	ytical Services	- Green Bay	/					
Tetrachloroethene	5.3	ug/L	1.0	0.41	1		04/11/22 16:36	127-18-4	
Trichloroethene	1.2	ug/L	1.0	0.32	1		04/11/22 16:36		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/11/22 16:36		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/11/22 16:36	3 156-59-2	
trans-1,2-Dichloroethene	< 0.53	ug/L	1.0	0.53	1		04/11/22 16:36	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/11/22 16:36		
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/11/22 16:36	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/11/22 16:36	3 2037-26-5	
Sample: MW-10	Lab ID:	40242989007	Collected	I: 04/05/2	2 15:12	Received: 04	1/06/22 08:00 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	260					•	
	Pace Anal	ytical Services	- Green Bay	/					
Tetrachloroethene	2.4	ug/L	1.0	0.41	1		04/11/22 16:57	7 127-18-4	
Trichloroethene	0.54J	ug/L	1.0	0.32	1		04/11/22 16:57		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/11/22 16:57		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/11/22 16:57		
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/11/22 16:57		
Surrogates	00	%	70-130		4		04/11/22 16:5	7 460 00 4	
4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	98 101	% %	70-130 70-130		1 1		04/11/22 16:57 04/11/22 16:57		
Toluene-d8 (S)	97	%	70-130		1		04/11/22 16:57		
roldone do (o)	01	70	70 100		•		04/11/22 10:01	2007 20 0	
Sample: MW-18	Lab ID:	40242989008	Collected	I: 04/05/2	2 12:01	Received: 04	1/06/22 08:00 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifi	ed					
	Pace Anal	ytical Services	- Green Bay	/					
Ethane	< 0.39	ug/L	5.6	0.39	1		04/08/22 13:5	5 74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		04/08/22 13:5		
Methane	<0.58	ug/L	2.8	0.58	1		04/08/22 13:5		
6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D						
OUTOD MET ICF, DISSUIVED	-	ytical Services		,					
		•	•						
Iron, Dissolved	90.3J	ug/L	100	29.6	1		04/07/22 16:3	7/20 00 6	



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

Sample: MW-18	Lab ID:	40242989008	Collected	: 04/05/22	2 12:01	Received: 04	1/06/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical l	Method: EPA 82	260						
	Pace Analy	tical Services -	- Green Bay						
Tetrachloroethene	93.0	ug/L	1.0	0.41	1		04/11/22 17:17	127-18-4	
Trichloroethene	1.3	ug/L	1.0	0.32	1		04/11/22 17:17		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/11/22 17:17		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/11/22 17:17	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/11/22 17:17	156-60-5	
Surrogates	07	0/	70 120		4		04/44/00 47:47	460.00.4	
4-Bromofluorobenzene (S)	97	% %	70-130 70-130		1 1		04/11/22 17:17		
1,2-Dichlorobenzene-d4 (S) Toluene-d8 (S)	102 97	% %	70-130 70-130		1		04/11/22 17:17 04/11/22 17:17		
Tolderie-do (3)	91	70	70-130		'		04/11/22 17.17	2037-20-3	
300.0 IC Anions	Analytical l	Method: EPA 30	0.00						
	Pace Analy	tical Services -	- Green Bay						
Sulfate	22.7	mg/L	2.0	0.44	1		04/11/22 06:46	14808-79-8	
5310C TOC	Analytical	Method: SM 53	10C						
33100 100	•	tical Services -							
Tatal Ourses in Oasthans			-				04/44/00 00 00	7440 44 0	
Total Organic Carbon	1.4	mg/L	0.50	0.14	1		04/11/22 06:02	7440-44-0	
Sample: MW-19	Lab ID:	40242989009	Collected	: 04/05/22	2 12:48	Received: 04	1/06/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical I	Method: EPA 82							
0200 M3 V	•	tical Services							
Tetrachloroethene	6.4	ug/L	1.0	0.41	1		04/11/22 19:00	127_18_4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/11/22 19:00		
Vinyl chloride	<0.17	ug/L	1.0	0.32	1		04/11/22 19:00		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/11/22 19:00		
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/11/22 19:00		
Surrogates		3							
4-Bromofluorobenzene (S)	100	%	70-130		1		04/11/22 19:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		04/11/22 19:00	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/11/22 19:00	2037-26-5	
O	Lab ID:	40242989010	Collected	: 04/05/22	2 13:45	Received: 04	1/06/22 08:00 Ma	atrix: Water	
Sample: MW-20									
Sample: MW-20 Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
Parameters Methane, Ethane, Ethene GCV	Analytical	Units — — — — — — — — — — — — — — — — — — —	015B Modifi	ed	DF_	Prepared	Analyzed	CAS No.	Qua



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

Sample: MW-20	Lab ID:	40242989010	Collected	d: 04/05/22	2 13:45	Received: 04	1/06/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
Methane, Ethane, Ethene GCV	-	Method: EPA 8							
	Pace Analy	tical Services	- Green Bay	/					
Ethene	<0.25	ug/L	5.0	0.25	1		04/08/22 14:02	74-85-1	
Methane	<0.58	ug/L	2.8	0.58	1		04/08/22 14:02	74-82-8	
6010D MET ICP, Dissolved	Analytical l	Method: EPA 6	010D						
,	•	tical Services		/					
Iron, Dissolved	<29.6	ug/L	100	29.6	1		04/07/22 16:37	7439-89-6	
8260 MSV	Analytical I	Method: EPA 8	260						
0200 NIS V		tical Services		/					
Tetrachloroethene	106				2.5		04/11/22 10:41	107 10 /	
Trichloroethene	106 1.4J	ug/L ug/L	2.5 2.5	1.0 0.80	2.5 2.5		04/11/22 19:41 04/11/22 19:41		
Vinyl chloride	<0.44	ug/L ug/L	2.5	0.60	2.5		04/11/22 19:41		
cis-1,2-Dichloroethene	<0.44 <1.2	ug/L ug/L	2.5	1.2	2.5		04/11/22 19:41		
trans-1,2-Dichloroethene	<1.2 <1.3	Ū	2.5	1.3	2.5		04/11/22 19:41		
Surrogates	<1.3	ug/L	2.3	1.3	2.5		04/11/22 19.41	130-00-3	
4-Bromofluorobenzene (S)	100	%	70-130		2.5		04/11/22 19:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		2.5		04/11/22 19:41		
Toluene-d8 (S)	100	%	70-130		2.5		04/11/22 19:41		
,		Made at EDA O							
300.0 IC Anions	•	Method: EPA 3 ytical Services		/					
Sulfate	17.4	mg/L	2.0	0.44	1		04/11/22 07:01	14808-79-8	
5310C TOC	Analytical l	Method: SM 53	10C						
	•	tical Services		/					
Total Organic Carbon	1.3J	mg/L	1.5	0.42	3		04/11/22 14:24	7440-44-0	D3
Sample: MW-21	Lab ID:	40242989011	Collected	d: 04/05/22	2 00:00	Received: 04	4/06/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
									-
8260 MSV	•	Method: EPA 8: ytical Services		,					
Total ablam attan			•		4		04/44/00 47 00	107.10.1	
Tetrachloroethene	59.9	ug/L	1.0	0.41	1		04/11/22 17:38		
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/11/22 17:38		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/11/22 17:38		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/11/22 17:38		
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/11/22 17:38	156-60-5	
Surrogates									
Surrogates 4-Bromofluorobenzene (S)	101	%	70-130		1		04/11/22 17:38	460-00-4	
Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	101 106	% %	70-130 70-130		1 1		04/11/22 17:38 04/11/22 17:38		



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

Sample: MW-5	Lab ID: 40	242989012	Collected	l: 04/05/2	2 15:17	Received: 04	1/06/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Me	thod: EPA 8	260						
	Pace Analytic	al Services	- Green Bay	/					
Tetrachloroethene	0.62J	ug/L	1.0	0.41	1		04/12/22 08:10	127-18-4	
Trichloroethene		ug/L	1.0	0.32	1		04/12/22 08:10		
Vinyl chloride		ug/L	1.0	0.32	1		04/12/22 08:10		
cis-1,2-Dichloroethene		ug/L	1.0	0.47	1		04/12/22 08:10		
trans-1,2-Dichloroethene		ug/L	1.0	0.53	1		04/12/22 08:10		
Surrogates		~ <i>9</i> , =		0.00	·		0 17 12/22 00110	.00 00 0	
4-Bromofluorobenzene (S)	99	%	70-130		1		04/12/22 08:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/12/22 08:10	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/12/22 08:10	2037-26-5	
Sample: DUP-1	Lab ID: 40	242989013	Collected	l: 04/05/2	2 00:00	Received: 04	I/06/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	— — Analytical Me	thad: EDA 8					_	•	
0200 W3V	Pace Analytic			/					
Tetrachloroethene	57.1	ug/L	1.0	0.41	1		04/11/22 18:19	127-18-4	
Trichloroethene		ug/L	1.0	0.32	1		04/11/22 18:19	79-01-6	
Vinyl chloride		ug/L	1.0	0.17	1		04/11/22 18:19	75-01-4	
cis-1,2-Dichloroethene		ug/L	1.0	0.47	1		04/11/22 18:19	156-59-2	
trans-1,2-Dichloroethene		ug/L	1.0	0.53	1		04/11/22 18:19	156-60-5	
Surrogates		Ü							
4-Bromofluorobenzene (S)	99	%	70-130		1		04/11/22 18:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/11/22 18:19	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/11/22 18:19	2037-26-5	
Sample: TRIP	Lab ID: 40	242989014	Collected	l: 04/05/22	2 00:00	Received: 04	I/06/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Me	thod: EPA 8	 260						
	Pace Analytic	al Services	- Green Bay	1					
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/11/22 13:01	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/11/22 13:01	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/11/22 13:01	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/11/22 13:01	156-59-2	
trans-1,2-Dichloroethene Surrogates	<0.53	ug/L	1.0	0.53	1		04/11/22 13:01	156-60-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		04/11/22 13:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		04/11/22 13:01		
Toluene-d8 (S)	99	%	70-130		1		04/11/22 13:01		
	00	,,	7.5 100		•		3 17 1 17 22 10:01	_00. 200	

(920)469-2436



QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

QC Batch: 412607 Analysis Method: EPA 8015B Modified

QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

METHOD BLANK: 2376145 Matrix: Water

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	04/08/22 11:09	
Ethene	ug/L	<0.25	5.0	04/08/22 11:09	
Methane	ug/L	<0.58	2.8	04/08/22 11:09	

LABORATORY CONTROL SAMPLE &	LCSD: 2376146		23	376147						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Ethane	ug/L	53.6	54.1	53.5	101	100	80-120	1	20	
Ethene	ug/L	50	50.4	49.8	101	100	80-120	1	20	
Methane	ug/L	28.6	29.4	29.2	103	102	80-121	1	20	

MATRIX SPIKE & MATRIX SF	PIKE DUPLIC	CATE: 2376	283		2376284							
		0040040000	MS	MSD	MC	MCD	MC	MCD	0/ D		Mass	
	4	0242840003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Ethane	ug/L	< 0.39	53.6	53.6	54.6	55.7	102	104	80-122	2	20	
Ethene	ug/L	<0.25	50	50	51.4	52.4	103	105	80-122	2	20	
Methane	ug/L	<0.58	28.6	28.6	31.7	32.2	111	113	10-200	2	20	

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(920)469-2436



QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

QC Batch: 412535 Analysis Method: EPA 6010D

QC Batch Method: EPA 6010D Analysis Description: ICP Metals, Trace, Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

METHOD BLANK: 2375705 Matrix: Water

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Iron, Dissolved ug/L <29.6 100 04/07/22 16:15

LABORATORY CONTROL SAMPLE: 2375706

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Iron, Dissolved ug/L 10000 10100 101 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2375707 2375708

MS MSD

40242989001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Conc. Limits

Iron, Dissolved ug/L <29.6 10000 10000 9960 9940 100 99 75-125 0 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

QC Batch: 412487 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989004, 40242989005, 40242989006, 40242989007, 40242989008, 40242989009, 40242989010, 40242989011, 40242989012, 40242989013, 40242989014

METHOD BLANK: 2375326 Matrix: Water

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989004, 40242989005, 40242989007,

40242989008, 40242989009, 40242989010, 40242989011, 40242989012, 40242989013, 40242989014

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/11/22 08:24	
Tetrachloroethene	ug/L	< 0.41	1.0	04/11/22 08:24	
trans-1,2-Dichloroethene	ug/L	< 0.53	1.0	04/11/22 08:24	
Trichloroethene	ug/L	< 0.32	1.0	04/11/22 08:24	
Vinyl chloride	ug/L	<0.17	1.0	04/11/22 08:24	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	04/11/22 08:24	
4-Bromofluorobenzene (S)	%	101	70-130	04/11/22 08:24	
Toluene-d8 (S)	%	99	70-130	04/11/22 08:24	

LABORATORY CONTROL SAMPLE:	2375327					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	54.5	109	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	70-130	
Trichloroethene	ug/L	50	56.6	113	70-130	
Vinyl chloride	ug/L	50	49.1	98	63-142	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPLI	ICATE: 2376	509 MS	MSD	2376510							
		40242939002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
cis-1,2-Dichloroethene	ug/L		50	50	53.2	52.9	106	106	70-130	1	20	
Tetrachloroethene	ug/L	<0.00041 mg/L	50	50	53.6	56.5	107	113	70-130	5	20	
trans-1,2-Dichloroethene	ug/L	<0.00053 mg/L	50	50	54.6	54.4	109	109	70-134	1	20	
Trichloroethene	ug/L	<0.00032 mg/L	50	50	54.9	56.9	110	114	70-130	3	20	
Vinyl chloride	ug/L	<0.00017 mg/L	50	50	46.8	48.2	94	96	61-143	3	20	
1,2-Dichlorobenzene-d4 (S)	%						98	101	70-130			
4-Bromofluorobenzene (S)	%						102	106	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376509 2376510

MSD

MS 40242939002 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Result Toluene-d8 (S) % 100 70-130

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

QC Batch: 412533 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

METHOD BLANK: 2375683 Matrix: Water

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Sulfate mg/L <0.44 2.0 04/11/22 03:18

LABORATORY CONTROL SAMPLE: 2375684

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Sulfate 20 19.9 99 90-110 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2375685 2375686

MS MSD

40242620001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Conc. Limits 101J Sulfate mg/L 2000 2000 2140 2160 102 103 90-110 15

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

QC Batch: 412555 Analysis Method: SM 5310C

QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

METHOD BLANK: 2375938 Matrix: Water

Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Organic Carbon mg/L <0.14 0.50 04/11/22 02:49

LABORATORY CONTROL SAMPLE: 2375939

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

Date: 04/13/2022 04:04 PM

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Total Organic Carbon mg/L 12.5 12.9 103 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2375940 2375941

MS MSD

40242989001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Result Conc. Limits Qual **Total Organic Carbon** 1.0 6 mg/L 6 6.5 6.6 92 93 80-120 10

2376888

2376887 MS MSD

40243015001 MS MSD MS MSD Spike Spike % Rec Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Total Organic Carbon 3.3 6 6 9.0 91 94 2 8.8 80-120 10 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 04/13/2022 04:04 PM

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40242989

Date: 04/13/2022 04:04 PM

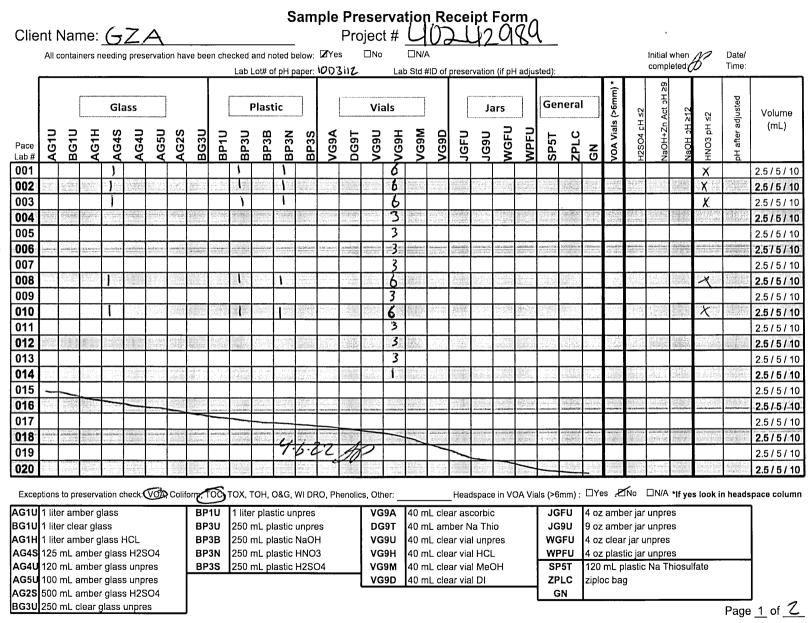
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
40242989001	MW-6	EPA 8015B Modified	412607		
40242989002	MW-7	EPA 8015B Modified	412607		
40242989003	MW-8	EPA 8015B Modified	412607		
10242989008	MW-18	EPA 8015B Modified	412607		
10242989010	MW-20	EPA 8015B Modified	412607		
0242989001	MW-6	EPA 6010D	412535		
10242989002	MW-7	EPA 6010D	412535		
0242989003	MW-8	EPA 6010D	412535		
10242989008	MW-18	EPA 6010D	412535		
40242989010	MW-20	EPA 6010D	412535		
10242989001	MW-6	EPA 8260	412487		
0242989002	MW-7	EPA 8260	412487		
10242989003	MW-8	EPA 8260	412487		
0242989004	MW-11	EPA 8260	412487		
0242989005	MW-9	EPA 8260	412487		
0242989006	PZ-2	EPA 8260	412487		
0242989007	MW-10	EPA 8260	412487		
0242989008	MW-18	EPA 8260	412487		
0242989009	MW-19	EPA 8260	412487		
0242989010	MW-20	EPA 8260	412487		
0242989011	MW-21	EPA 8260	412487		
0242989012	MW-5	EPA 8260	412487		
10242989013	DUP-1	EPA 8260	412487		
10242989014	TRIP	EPA 8260	412487		
0242989001	MW-6	EPA 300.0	412533		
0242989002	MW-7	EPA 300.0	412533		
10242989003	MW-8	EPA 300.0	412533		
10242989008	MW-18	EPA 300.0	412533		
0242989010	MW-20	EPA 300.0	412533		
0242989001	MW-6	SM 5310C	412555		
10242989002	MW-7	SM 5310C	412555		
10242989003	MW-8	SM 5310C	412555		
0242989008	MW-18	SM 5310C	412555		
10242989010	MW-20	SM 5310C	412555		

CHAIN-OF-CUSTODY Analytical Request Document Pace Analytical*										LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here UDLU2989									
<u>/</u>	Chain-o	f-Custody	is a LEGAL D		T - Complet	te all relever	nt fields		of the design	i salesparte Valencia	eranti orași	90 (1800) 1800 (1900)						40242901	
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[] Dispose as appropriate [] Return	[] San		[] Next Day		[大] Yes	[] No				$ \overline{\omega} $	Service Service	ठ	3000				C1 Str		
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MW-8	CW	G	415122					9	×	×	X	X	X	(2) 3/6		104 - 82,000 (104 m) 105 (207 - 208 c)	003		
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Copy To:	<u>жн . ю(т</u>		Site Collec	tion Info/A	Addless:	72a.16	MY 1							8) sodium th U) Unpreser			exane, (A) asco	rbic acid, (B) ammonium sulfate,
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Customer Sample ID	Matrix *	Comp / Grab	Compos	ted (or site Start)	ļ	osite End	Res Cl	# of Ctns	$ \mathcal{S} $	Methane	3	R	12					ample # / Comments:
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MW-5	GW	G	4/5/22	15:17	+		+-	3	X	 		-				***	012	
DUP-1	GW	6	4/5/22			=	+	3	K	-	%	\vdash			+	+	014	
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DC# Title: ENV-FRM-GBAY-0035 v01 Sample Preservation Receipt Form

Revision: 3 | Effective Date: | Issued by: Green Bay



DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR Revision: 3 | Effective Date: | Issued by: Green Bay

Sample Condition Upon Receipt Form (SCUR)

Client Name: 674	WO#: 40242989
Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco	
☐ Client ☐ Pace Other:	
Tracking #:	40242989
Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes	□ no
Custody Seal on Samples Present: ☐ yes 💆 no Seals intact: ☐ yes	□ no
Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ C	Other
Thermometer Used SR - \\ \lambda \ \ SR - \\ \lambda \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Cooler Temperature Uncorr: 2 /Corr: Z .\	Person examining contents:
Temp Blank Present:	Frozen: yes no Date: 4.6.22 /Initials:
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.	Labeled By Initials:
Chain of Custody Present:	
Chain of Custody Filled Out: □Yes ØNo □N/A 2. ♣9 ☐	4.6.2280
Chain of Custody Relinquished: ☑Yes ☐No ☐N/A 3.	
Sampler Name & Signature on COC:	
Samples Arrived within Hold Time: ☑Yes ☐No 5.	
- VOA Samples frozen upon receipt □Yes □No Date/Tim	e:
Short Hold Time Analysis (<72hr): □Yes ☑No 6.	
Rush Turn Around Time Requested: □Yes ☑No 7.	
Sufficient Volume: 8.	
For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A	
Correct Containers Used: ☑Yes □No 9.	
-Pace Containers Used: ☑Yes ☐No ☐N/A	
-Pace IR Containers Used: □Yes □No ☑N/A	
Containers Intact: ☑Yes ☐No 10.	
Filtered volume received for Dissolved tests	
Sample Labels match COC: V6/22 DIVA 12.	11: "14:33" 4/6/22 al
-Includes date/time/ID/Analysis Matrix:	
Trip Blank Present: ☑Yes ☐No ☐N/A 13.	
Trip Blank Custody Seals Present	
Pace Trip Blank Lot # (if purchased): 477	
Client Notification/ Resolution:	If checked, see attached form for additional comments
PM Review is documented electronically in LIMs. By releasing the project, to	the PM acknowledges they have reviewed the sample login

Qualtrax Document ID: 41292

Pace Analytical Services, LLC





April 14, 2022

Kevin Hedinger GZA 17975 West Sarah Lane Suite 100 Brookfield, WI 53045

RE: Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Chushpher Hyska

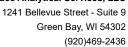
christopher.hyska@pacelabs.com

(920)469-2436

Project Manager

Enclosures







CERTIFICATIONS

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40243106001	MW-3	Water	04/06/22 08:52	04/07/22 08:00
40243106002	MW-15	Water	04/06/22 09:29	04/07/22 08:00
40243106003	MW-1	Water	04/06/22 10:16	04/07/22 08:00
40243106004	PZ-1	Water	04/06/22 10:55	04/07/22 08:00
40243106005	MW-4	Water	04/06/22 12:04	04/07/22 08:00
40243106006	MW-16	Water	04/06/22 12:51	04/07/22 08:00
40243106007	MW-14	Water	04/06/22 08:55	04/07/22 08:00
40243106008	MW-2	Water	04/06/22 09:40	04/07/22 08:00
40243106009	MW-13	Water	04/06/22 10:30	04/07/22 08:00
40243106010	PZ-3	Water	04/06/22 11:10	04/07/22 08:00
40243106011	MW-17	Water	04/06/22 11:55	04/07/22 08:00
40243106012	MW-12	Water	04/06/22 12:40	04/07/22 08:00
40243106013	DUP-2	Water	04/06/22 00:00	04/07/22 08:00
40243106014	TRIP	Water	04/06/22 00:00	04/07/22 08:00



SAMPLE ANALYTE COUNT

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40243106001	MW-3	EPA 8260	EIB	8	PASI-G
40243106002	MW-15	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106003	MW-1	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106004	PZ-1	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106005	MW-4	EPA 8260	EIB	8	PASI-G
40243106006	MW-16	EPA 8260	EIB	8	PASI-G
40243106007	MW-14	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106008	MW-2	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106009	MW-13	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	НМВ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106010	PZ-3	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	НМВ	1	PASI-G



SAMPLE ANALYTE COUNT

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	TJJ	1	PASI-G
40243106011	MW-17	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106012	MW-12	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106013	DUP-2	EPA 8260	EIB	8	PASI-G
40243106014	TRIP	EPA 8260	EIB	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
0243106002	MW-15					
EPA 8260	Tetrachloroethene	3.0	ug/L	1.0	04/08/22 22:17	
EPA 300.0	Sulfate	24.8	mg/L	10.0	04/12/22 01:55	
SM 5310C	Total Organic Carbon	1.1	mg/L	0.50	04/14/22 02:26	
0243106003	MW-1					
EPA 8260	Tetrachloroethene	48.3	ug/L	1.0	04/08/22 22:38	
EPA 8260	Trichloroethene	3.2	ug/L	1.0	04/08/22 22:38	
EPA 8260	cis-1,2-Dichloroethene	8.9	ug/L	1.0		
EPA 8260	trans-1,2-Dichloroethene	0.92J	ug/L	1.0		
EPA 300.0	Sulfate	15.1	mg/L		04/12/22 02:15	
SM 5310C	Total Organic Carbon	2.1	mg/L	0.50	04/14/22 03:14	
0243106004	PZ-1		_			
EPA 300.0	Sulfate	27.9	mg/L		04/12/22 02:35	
SM 5310C	Total Organic Carbon	0.98	mg/L	0.50	04/14/22 03:30	
0243106005	MW-4					
EPA 8260	Tetrachloroethene	1.8	ug/L	1.0	04/08/22 23:19	
0243106006	MW-16					
EPA 8260	Tetrachloroethene	6.6	ug/L	1.0	04/08/22 23:39	
0243106007	MW-14					
EPA 8260	Tetrachloroethene	15.8	ug/L	1.0	04/09/22 00:00	
EPA 300.0	Sulfate	103	mg/L	10.0		
SM 5310C	Total Organic Carbon	1.2	mg/L	0.50	04/14/22 03:47	
0243106008	MW-2					
EPA 8260	Tetrachloroethene	10.7	ug/L	1.0		
EPA 300.0	Sulfate	22.7	mg/L	10.0		
SM 5310C	Total Organic Carbon	1.1	mg/L	0.50	04/14/22 04:03	
0243106009	MW-13					
EPA 8260	Tetrachloroethene	58.0	ug/L	1.0	04/09/22 00:41	
EPA 8260	Trichloroethene	0.71J	ug/L	1.0		
EPA 300.0	Sulfate	34.0	mg/L	10.0	04/12/22 03:36	
SM 5310C	Total Organic Carbon	1.5	mg/L	0.50	04/14/22 04:19	
0243106010	PZ-3					
EPA 8260	Tetrachloroethene	1.6	ug/L		04/11/22 09:05	
EPA 300.0	Sulfate	5.0J	mg/L		04/12/22 03:56	D3,M0
SM 5310C	Total Organic Carbon	5.3	mg/L	0.50	04/14/22 04:55	
0243106011	MW-17					
EPA 8260	Tetrachloroethene	57.7	ug/L		04/09/22 01:21	
EPA 8260	Trichloroethene	0.95J	ug/L		04/09/22 01:21	
EPA 300.0	Sulfate	22.3	mg/L		04/11/22 18:43	
SM 5310C	Total Organic Carbon	1.3	mg/L	0.50	04/14/22 05:11	
0243106012	MW-12					
EPA 8260	Tetrachloroethene	36.2	ug/L	1.0	04/09/22 01:42	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
			Office	- Troport Limit	- Analyzou	Qualificis
40243106012	MW-12					
EPA 8260	Trichloroethene	0.58J	ug/L	1.0	04/09/22 01:42	
EPA 300.0	Sulfate	22.2	mg/L	2.0	04/11/22 19:26	
SM 5310C	Total Organic Carbon	1.0	mg/L	0.50	04/14/22 05:27	
40243106013	DUP-2					
EPA 8260	Tetrachloroethene	6.3	ug/L	1.0	04/09/22 02:02	



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Sample: MW-3	Lab ID:	40243106001	Collected	: 04/06/22	08:52	Received: 04/	07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical I	Method: EPA 8	260						
	Pace Analy	tical Services	- Green Bay						
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/08/22 21:57	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/08/22 21:57		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/08/22 21:57		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/08/22 21:57	156-59-2	
trans-1,2-Dichloroethene	< 0.53	ug/L	1.0	0.53	1		04/08/22 21:57	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/08/22 21:57		
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/08/22 21:57		
Toluene-d8 (S)	97	%	70-130		1		04/08/22 21:57	2037-26-5	
Sample: MW-15	Lab ID:	40243106002	Collected	: 04/06/22	9 09:29	Received: 04/	07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical N	Method: EPA 8	015B Modifie						
mounano, Linano, Linano Cor	•	tical Services							
Ethane	<0.39	ug/L	5.6	0.39	1		04/11/22 11:40	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		04/11/22 11:40	74-85-1	
Methane	<0.58	ug/L	2.8	0.58	1		04/11/22 11:40	74-82-8	
6010D MET ICP, Dissolved	Analytical I	Method: EPA 6	010D Prepa	ration Met	hod: EF	A 3010A			
	Pace Analy	tical Services	- Green Bay						
Iron, Dissolved	<56.7	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:12	7439-89-6	
8260 MSV	Analytical I	Method: EPA 8	260						
	Pace Analy	tical Services	- Green Bay						
Tetrachloroethene	3.0	ug/L	1.0	0.41	1		04/08/22 22:17	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/08/22 22:17		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/08/22 22:17		
cis-1,2-Dichloroethene	< 0.47	ug/L	1.0	0.47	1		04/08/22 22:17		
trans-1,2-Dichloroethene	< 0.53	ug/L	1.0	0.53	1		04/08/22 22:17	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/08/22 22:17		
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/08/22 22:17		
Toluene-d8 (S)	99	%	70-130		1		04/08/22 22:17	2037-26-5	
300.0 IC Anions	Analytical I	Method: EPA 30	0.00						
	Pace Analy	tical Services	- Green Bay						
Sulfate	24.8	mg/L	10.0	2.2	5		04/12/22 01:55	14808-79-8	
5310C TOC		Method: SM 53							
	,		,						

REPORT OF LABORATORY ANALYSIS

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Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane <0.39 ug/L 5.6 0.39 1 04/11/22 12:11 74-84-0 Ethene <0.25 ug/L 5.0 0.25 1 04/11/22 12:11 74-85-1 Methane <0.58 ug/L 2.8 0.58 1 04/11/22 12:11 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	Sample: MW-1	Lab ID:	40243106003	Collected	: 04/06/22	10:16	Received: 04	/07/22 08:00 M	atrix: Water	
Pace Analytical Services - Green Bay Ethane	Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Pace Analytical Services - Green Bay Ethane	Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifie	ed					
Ethene Methane		Pace Ana	lytical Services	- Green Bay						
Ethene Methane	Ethane	<0.39	ua/L	5.6	0.39	1		04/11/22 12:05	74-84-0	
Methane			Ū							
Pace Analytical Services - Green Bay	Methane	<0.58	ŭ	2.8	0.58	1		04/11/22 12:05	74-82-8	
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay	6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D Prepa	ration Met	nod: EF	PA 3010A			
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay		Pace Ana	lytical Services	- Green Bay						
Pace Analytical Services - Green Bay	Iron, Dissolved	<56.7	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:22	7439-89-6	
Tetrachloroethene	8260 MSV	Analytical	Method: EPA 8	260						
Trichloroethene 3.2 ug/L 1.0 0.32 1 04/08/22 22:38 79-01-6 Vinyl chloride 4.0.17 ug/L 1.0 0.17 1 04/08/22 22:38 75-01-4 cis-1,2-Dichloroethene 8.9 ug/L 1.0 0.47 1 04/08/22 22:38 156-50-2 trans-1,2-Dichloroethene 0.92J ug/L 1.0 0.53 1 04/08/22 22:38 156-60-5 Surrogates 4-Bromofluorobenzene (S) 100 % 70-130 1 04/08/22 22:38 156-60-5 Surrogates 4-Bromofluorobenzene (S) 106 % 70-130 1 04/08/22 22:38 2199-69-1 Toluene-08 (S) 99 % 70-130 1 04/08/22 22:38 2037-26-5 300.0 IC Anions Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay Sulfate 15.1 mg/L 10.0 2.2 5 04/12/22 02:15 14808-79-8 5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Green Bay Total Organic Carbon 2.1 mg/L 0.50 0.14 1 04/14/22 03:14 7440-44-0 Sample: PZ-1 Lab ID: 40243106004 Collected: 04/06/22 10:55 Received: 04/07/22 08:00 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane 40.39 ug/L 5.6 0.39 1 04/11/22 12:11 74-84-0 Ethene 40.25 ug/L 5.0 0.25 1 04/11/22 12:11 74-85-1 Methane 40.58 ug/L 2.8 0.58 1 04/11/22 12:11 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay		Pace Ana	lytical Services	- Green Bay						
Trichloroethene 3.2 ug/L 1.0 0.32 1 04/08/22 22:38 79-01-6 Vinyl chloride 40.17 ug/L 1.0 0.17 1 04/08/22 22:38 75-01-6 Vinyl chloride 40.17 ug/L 1.0 0.47 1 04/08/22 22:38 75-01-6 Vinyl chloride 40.17 ug/L 1.0 0.47 1 04/08/22 22:38 75-01-4 Vinyl chloride Vinyl chloride 40.17 ug/L 1.0 0.47 1 04/08/22 22:38 75-01-6 Vinyl chloride Vinyl c	Tetrachloroethene	48.3	ug/L	1.0	0.41	1		04/08/22 22:38	127-18-4	
cis-1,2-Dichloroethene 8.9 ug/L 1.0 0.47 1 04/08/22 22:38 156-59-2 trans-1,2-Dichloroethene 0.92J ug/L 1.0 0.53 1 04/08/22 22:38 156-60-5 Surrogates 4-Bromofluorobenzene (S) 100 % 70-130 1 04/08/22 22:38 260-00-4 1,2-Dichlorobenzene-04 (S) 106 % 70-130 1 04/08/22 22:38 2199-69-1 Toluene-08 (S) 99 % 70-130 1 04/08/22 22:38 2037-26-5 300.0 IC Anions Analytical Method: SPA 300.0 Pace Analytical Services - Green Bay Sulfate 15.1 mg/L 10.0 2.2 5 04/12/22 02:15 14808-79-8 5310C TOC Analytical Method: SPA 5310C Pace Analytical Services - Green Bay Total Organic Carbon 2.1 mg/L 0.50 0.14 1 04/14/22 03:14 7440-44-0 Sample: PZ-1 Lab ID: 40243106004 Collected: 04/06/22 10:55 Received: 04/07/22 08:00 Matrix: Water Parameters	Trichloroethene	3.2	ug/L	1.0	0.32	1		04/08/22 22:38	79-01-6	
trans-1,2-Dichloroethene	Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/08/22 22:38	75-01-4	
## A consider of the control of the	cis-1,2-Dichloroethene	8.9	ug/L	1.0	0.47	1		04/08/22 22:38	156-59-2	
4-Bromofluorobenzene (S) 100 % 70-130 1 04/08/22 22:38 460-00-4 1,2-Dichlorobenzene-d4 (S) 106 % 70-130 1 04/08/22 22:38 2199-69-1 Toluene-d8 (S) 99 % 70-130 1 04/08/22 22:38 2037-26-5 300.0 IC Anions Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay Sulfate 15.1 mg/L 10.0 2.2 5 04/12/22 02:15 14808-79-8 5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Green Bay Total Organic Carbon 2.1 mg/L 0.50 0.14 1 04/14/22 03:14 7440-44-0 Sample: PZ-1 Lab ID: 40243106004 Collected: 04/06/22 10:55 Received: 04/07/22 08:00 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay 40.39 ug/L 5.6 0.39 1 04/11/22 12:11 74-84-0 40.25 ug/L 5.0 0.25 1 04/11/22 12:11 74-85-1 40.58 ug/L 2.8 0.58 1 04/11/22 12:11 74-85-1 40.59 Methane 40.58 ug/L 2.8 0.58 1 04/11/22 12:11 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	,	0.92J	-	1.0	0.53	1		04/08/22 22:38	156-60-5	
1,2-Dichlorobenzene-d4 (S)	•	100	%	70-130		1		04/08/22 22:38	460-00-4	
Totuene-d8 (S) 99 % 70-130 1 04/08/22 22:38 2037-26-5 300.0 IC Anions	` ,									
Pace Analytical Services - Green Bay										
Sulfate 15.1 mg/L 10.0 2.2 5 04/12/22 02:15 14808-79-8 5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Green Bay Total Organic Carbon 2.1 mg/L 0.50 0.14 1 04/14/22 03:14 7440-44-0 Sample: PZ-1 Lab ID: 40243106004 Collected: 04/06/22 10:55 Received: 04/07/22 08:00 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane <0.39 ug/L 5.6 0.39 1 04/11/22 12:11 74-84-0 <0.25 ug/L 5.0 0.25 1 04/11/22 12:11 74-85-1 Methane <0.58 ug/L 2.8 0.58 1 04/11/22 12:11 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	300.0 IC Anions	Analytical	Method: EPA 3	00.0						
Sample: PZ-1		Pace Ana	lytical Services	- Green Bay						
Pace Analytical Services - Green Bay Total Organic Carbon 2.1 mg/L 0.50 0.14 1 04/14/22 03:14 7440-44-0 Sample: PZ-1 Lab ID: 40243106004 Collected: 04/06/22 10:55 Received: 04/07/22 08:00 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane <0.39 ug/L 5.6 0.39 1 04/11/22 12:11 74-84-0 Ethene <0.25 ug/L 5.0 0.25 1 04/11/22 12:11 74-85-1 Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	Sulfate	15.1	mg/L	10.0	2.2	5		04/12/22 02:15	14808-79-8	
Total Organic Carbon 2.1 mg/L 0.50 0.14 1 04/14/22 03:14 7440-44-0	5310C TOC	Analytical	Method: SM 53	310C						
Sample: PZ-1 Lab ID: 40243106004 Collected: 04/06/22 10:55 Received: 04/07/22 08:00 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Prepared Analytical 174-84-0 Analytical 174-84-0 Analytical 174-84-0 Analytical 174-85-1 Analytical 174-85-1 Analytical 174-85-1 Analytical 174-82-8		Pace Ana	lytical Services	- Green Bay						
Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane <0.39	Total Organic Carbon	2.1	mg/L	0.50	0.14	1		04/14/22 03:14	7440-44-0	
Methane, Ethane, Ethane GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane <0.39	Sample: PZ-1	Lab ID:	40243106004	Collected	: 04/06/22	10:55	Received: 04	/07/22 08:00 M	atrix: Water	
Pace Analytical Services - Green Bay Ethane	Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Pace Analytical Services - Green Bay Ethane	Methane, Ethane, Ethene GCV	- ——— - Analytical	Method: EPA 8	015B Modifie	ed -		•			
Ethene		•								
Ethene	Ethane	<0.39	ug/L	5.6	0.39	1		04/11/22 12:11	74-84-0	
Methane <0.58 ug/L 2.8 0.58 1 04/11/22 12:11 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	Ethene	<0.25	•	5.0		1				
Pace Analytical Services - Green Bay	Methane	<0.58	_			1				
· · · · · · · · · · · · · · · · · · ·	6010D MET ICP, Dissolved	=				nod: EF	PA 3010A			
	Iron, Dissolved		ug/L	•		1	04/11/22 06:17	04/12/22 18:24	7439-89-6	



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Sample: PZ-1	Lab ID: 40	0243106004	Collected	: 04/06/22	2 10:55	Received: 04	1/07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	•	ethod: EPA 8 cal Services							
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/11/22 08:44	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/11/22 08:44		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/11/22 08:44		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/11/22 08:44	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/11/22 08:44	156-60-5	
Surrogates 4-Bromofluorobenzene (S)	101	%	70-130		1		04/11/22 08:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/11/22 08:44		
Toluene-d8 (S)	99	%	70-130		1		04/11/22 08:44		
,					·		0 1, 1 1, 22 001 1 1	200. 20 0	
300.0 IC Anions	•	ethod: EPA 30 cal Services							
Sulfate	27.9	mg/L	10.0	2.2	5		04/12/22 02:35	14808-79-8	
		Ü		2.2	J		04/12/22 02:00	14000-75-0	
5310C TOC		ethod: SM 53							
	Ţ	cal Services	•						
Total Organic Carbon	0.98	mg/L	0.50	0.14	1		04/14/22 03:30	7440-44-0	
Sample: MW-4	Lab ID: 40	0243106005	Collected	: 04/06/22	2 12:04	Received: 04	4/07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical M	ethod: EPA 8	260						
	Pace Analyti	cal Services	Green Bay						
Tetrachloroethene	1.8	ug/L	1.0	0.41	1		04/08/22 23:19	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/08/22 23:19	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/08/22 23:19	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/08/22 23:19		
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/08/22 23:19	156-60-5	
Surrogates		•							
4-Bromofluorobenzene (S)	97	%	70-130		1		04/08/22 23:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/08/22 23:19	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/08/22 23:19	2037-26-5	
Sample: MW-16	Lab ID: 40	0243106006	Collected	: 04/06/22	2 12:51	Received: 04	1/07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
		-4					_	•	
8260 MSV	Analytical Mo Pace Analyti	etnod: EPA 8. cal Services ·							

REPORT OF LABORATORY ANALYSIS

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Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical N	Method: EPA 8	260						
	-	tical Services		у					
Trichloroothono	<0.32	ug/l	1.0	0.32	1		04/08/22 23:39	70.01.6	
Trichloroethene Vinyl chloride	<0.32 <0.17	ug/L ug/L	1.0 1.0	0.32	1		04/08/22 23:39		
cis-1,2-Dichloroethene	<0.17 <0.47	ug/L ug/L	1.0	0.17	1		04/08/22 23:39		
trans-1,2-Dichloroethene	<0.53	ug/L ug/L	1.0	0.53	1		04/08/22 23:39		
Surrogates	~0.55	ug/L	1.0	0.55			04/00/22 23.33	130-00-3	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/08/22 23:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/08/22 23:39		
Toluene-d8 (S)	100	%	70-130		1		04/08/22 23:39		
		400404000	0 11 1	1 04/00/00	2 00 55	D : 1 04	107/00 00 00 14		
Sample: MW-14	Lab ID: 4	40243106007	Collecte	d: 04/06/22	2 08:55	Received: 04/	07/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
Methane, Ethane, Ethene GCV	Analytical N	Method: EPA 8	015B Modit	ied					
	Pace Analy	tical Services	- Green Ba	y					
Ethane	<0.39	ug/L	5.6	0.39	1		04/11/22 12:18	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		04/11/22 12:18		
Methane	<0.58	ug/L	2.8	0.58	1		04/11/22 12:18		
6010D MET ICP, Dissolved	-	Method: EPA 6			thod: EF	PA 3010A			
Iron, Dissolved	<56.7	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:27	7439-89-6	
8260 MSV	Analytical N	/lethod: EPA 8	260						
	-	tical Services		y					
Tetrachloroethene	15.8	ug/L	1.0	0.41	1		04/09/22 00:00	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/09/22 00:00		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/09/22 00:00	75-01-4	
cis-1,2-Dichloroethene	< 0.47	ug/L	1.0	0.47	1		04/09/22 00:00	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/09/22 00:00		
Surrogates		Č							
4-Bromofluorobenzene (S)	100	%	70-130		1		04/09/22 00:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		04/09/22 00:00	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/09/22 00:00	2037-26-5	
300.0 IC Anions	,	Method: EPA 3		v					
Sulfate	103	mg/L	10.0	2.2	5		04/12/22 02:56	14808-79-8	
5310C TOC	-	Method: SM 53		v					
	i ace Allaly	tiodi Oci vioco	Oloon ba						



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Sample: MW-2	Lab ID:	40243106008	Collected	: 04/06/22	09:40	Received: 04	/07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifie	ed					
, ,	-	lytical Services							
Ethane	<0.39	ug/L	5.6	0.39	1		04/11/22 12:25	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		04/11/22 12:25		
Methane	<0.58	ug/L	2.8	0.58	1		04/11/22 12:25	74-82-8	
6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D Prepa	ration Met	nod: EF	PA 3010A			
	Pace Ana	lytical Services	- Green Bay						
Iron, Dissolved	<56.7	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:29	7439-89-6	
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Ana	lytical Services	- Green Bay						
Tetrachloroethene	10.7	ug/L	1.0	0.41	1		04/09/22 00:20	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/09/22 00:20	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/09/22 00:20	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/09/22 00:20	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/09/22 00:20	156-60-5	
Surrogates 4-Bromofluorobenzene (S)	99	%	70-130		1		04/09/22 00:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		04/09/22 00:20		
Toluene-d8 (S)	99	%	70-130		1		04/09/22 00:20		
300.0 IC Anions	Analytical	Method: EPA 3	0.00						
	Pace Ana	lytical Services	- Green Bay						
Sulfate	22.7	mg/L	10.0	2.2	5		04/12/22 03:15	14808-79-8	
5310C TOC	Analytical	Method: SM 53	310C						
		lytical Services							
Total Organic Carbon	1.1	mg/L	0.50	0.14	1		04/14/22 04:03	7440-44-0	
Sample: MW-13	Lab ID:	40243106009	Collected	: 04/06/22	10:30	Received: 04	/07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifie	 -				•	
mornano, Ethano, Ethono GOV	-	lytical Services							
Ethane	<0.39	ug/L	5.6	0.39	1		04/11/22 12:32	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		04/11/22 12:32	74-85-1	
Methane	<0.58	ug/L	2.8	0.58	1		04/11/22 12:32	74-82-8	
6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D Prepa	ration Met	nod: EF	PA 3010A			
•		lytical Services							
Iron, Dissolved	<56.7	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:32	7439-89-6	



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Sample: MW-13	Lab ID:	40243106009	Collected	: 04/06/22	2 10:30	Received: 04/	07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Anal	ytical Services	- Green Bay	,					
Tetrachloroethene	58.0	ug/L	1.0	0.41	1		04/09/22 00:41	127-18-4	
Trichloroethene	0.71J	ug/L	1.0	0.32	1		04/09/22 00:41		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/09/22 00:41	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/09/22 00:41	156-59-2	
trans-1,2-Dichloroethene	< 0.53	ug/L	1.0	0.53	1		04/09/22 00:41	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/09/22 00:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/09/22 00:41	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/09/22 00:41	2037-26-5	
300.0 IC Anions	Analytical	Method: EPA 3	0.00						
	Pace Anal	ytical Services	- Green Bay	,					
Sulfate	34.0	mg/L	10.0	2.2	5		04/12/22 03:36	14808-79-8	
5310C TOC	Analytical	Method: SM 53	110C						
33100 100		ytical Services		,					
		mg/L	0.50	0.14	1		04/14/22 04:19	7440 44 0	
Total Organic Carbon	15						04/14/22 04.10	7440 44 0	
Total Organic Carbon	1.5	mg/L	0.00						
		40243106010		: 04/06/22	2 11:10	Received: 04/	707/22 08:00 Ma	atrix: Water	
				: 04/06/22	2 11:10 DF	Received: 04/	07/22 08:00 Ma	atrix: Water CAS No.	Qua
Sample: PZ-3 Parameters	Lab ID: Results Analytical	40243106010	Collected LOQ 015B Modifi	LOD ed					Qua
Sample: PZ-3 Parameters Methane, Ethane, Ethene GCV	Lab ID: Results Analytical Pace Anal	40243106010 Units Method: EPA 8 ytical Services	Collected LOQ 015B Modifi - Green Bay	LOD ed	DF		Analyzed	CAS No.	Qua
Sample: PZ-3 Parameters Methane, Ethane, Ethene GCV Ethane	Lab ID: Results Analytical Pace Analytical	40243106010 Units Method: EPA 8 ytical Services ug/L	Collected LOQ 015B Modifi - Green Bay 5.6	LOD ed ,	DF 1		Analyzed 04/11/22 12:39	CAS No.	Qua
Sample: PZ-3 Parameters Methane, Ethane, Ethene GCV Ethane Ethene	Lab ID: Results Analytical Pace Anal	40243106010 Units Method: EPA 8 ytical Services	Collected LOQ 015B Modifi - Green Bay	LOD ed	DF		Analyzed	CAS No. 74-84-0 74-85-1	Qua
Sample: PZ-3 Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane	Results Analytical Pace Analy <0.39 <0.25 <0.58 Analytical	Units Method: EPA 8 ytical Services ug/L ug/L	Collected LOQ 015B Modifir - Green Bay 5.6 5.0 2.8 010D Prepa	0.39 0.25 0.58	DF 1 1 1	Prepared	Analyzed 04/11/22 12:39 04/11/22 12:39	CAS No. 74-84-0 74-85-1	Qua
Total Organic Carbon Sample: PZ-3 Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved	Results Analytical Pace Analy <0.39 <0.25 <0.58 Analytical	Units Method: EPA 8 ytical Services ug/L ug/L ug/L	Collected LOQ 015B Modifir - Green Bay 5.6 5.0 2.8 010D Prepa	0.39 0.25 0.58	DF 1 1 1	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39	74-84-0 74-85-1 74-82-8	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane Methane Methane Mothane Mothane Mothane Mothane Mothane Mothane Mothane	Results Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Pace Analytical Company Analytical Analytical Company Analytical Analytical Analytical Analytical Analytical	Units Method: EPA 8 ytical Services ug/L ug/L ug/L Wethod: EPA 6 ytical Services ug/L	Collected LOQ 015B Modifir Green Bay 5.6 5.0 2.8 010D Prepar Green Bay	0.39 0.25 0.58 aration Me	DF 1 1 1 thod: EF	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39	74-84-0 74-85-1 74-82-8	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane Methane Methane Mothane Mothane Mothane Mothane Mothane Mothane Mothane	Analytical Pace Anal <0.39 <0.25 <0.58 Analytical Pace Anal <56.7 Analytical	Units Method: EPA 8 ytical Services ug/L ug/L ug/L Method: EPA 6 ytical Services	Collected LOQ 015B Modifi - Green Bay 5.6 5.0 2.8 010D Prepa	0.39 0.25 0.58 arration Mer	DF 1 1 1 thod: EF	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39	74-84-0 74-85-1 74-82-8	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV	Lab ID: Results Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Pace Analytical Pace Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: Services ytical Services	Collected LOQ 015B Modifi - Green Bay 5.6 5.0 2.8 010D Prepa	0.39 0.25 0.58 arration Mer	DF 1 1 1 thod: EF	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39	74-84-0 74-85-1 74-82-8 7439-89-6	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene	Analytical Pace Anal <0.39 <0.25 <0.58 Analytical Pace Anal <56.7 Analytical	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: Services ug/L Method: Services ug/L Method: EPA 8 ytical Services ug/L	Collected LOQ 015B Modifir - Green Bay 5.6 5.0 2.8 010D Prepa - Green Bay 100 260 - Green Bay 1.0	0.39 0.25 0.58 aration Met	DF 1 1 1 thod: EF	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39 04/12/22 18:34	74-84-0 74-85-1 74-82-8 7439-89-6	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene	Lab ID: Results Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Pace Analytical 1.6	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L	Collected LOQ 015B Modifir - Green Bay 5.6 5.0 2.8 010D Prepa - Green Bay 100 260 - Green Bay 1.0 1.0	0.39 0.25 0.58 aration Met	DF 1 1 1 thod: EF	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39 04/12/22 18:34 04/11/22 09:05 04/11/22 09:05	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 5010D MET ICP, Dissolved ron, Dissolved 3260 MSV Tetrachloroethene Trichloroethene Vinyl chloride	Lab ID: Results Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Pace Analytical Pace Analytical 1.6 <0.32 <0.17	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L ug/L ug/L	Collected LOQ 015B Modifii - Green Bay 5.6 5.0 2.8 010D Prepa - Green Bay 100 260 - Green Bay 1.0 1.0 1.0	0.39 0.25 0.58 aration Met	DF 1 1 1 thod: EF 1	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39 04/12/22 18:34 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved B260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene Irons-1,2-Dichloroethene Irons-1,2-Dichloroethene	Lab ID: Results Analytical Pace Analytical <0.39 <0.25 <0.58 Analytical Pace Analytical Pace Analytical 1.6 <0.32	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L	Collected LOQ 015B Modifir - Green Bay 5.6 5.0 2.8 010D Prepa - Green Bay 100 260 - Green Bay 1.0 1.0	0.39 0.25 0.58 aration Met	DF 1 1 1 thod: EF 1 1 1 1 1 1	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39 04/12/22 18:34 04/11/22 09:05 04/11/22 09:05	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates	Lab ID: Results Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	Collected LOQ 015B Modifirer Green Bay 5.6 5.0 2.8 010D Preparer 100 260 Green Bay 1.0 1.0 1.0 1.0 1.0	LOD ed , 0.39 0.25 0.58 eration Mer , 56.7 , 0.41 0.32 0.17 0.47	DF 1 1 1 thod: EF	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39 04/11/22 18:34 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates 4-Bromofluorobenzene (S)	Lab ID: Results Analytical Pace Analytical	Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L Ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Collected LOQ 015B Modifir - Green Bay 5.6 5.0 2.8 010D Prepa - Green Bay 100 260 - Green Bay 1.0 1.0 1.0 1.0 1.0 70-130	LOD ed , 0.39 0.25 0.58 eration Mer , 56.7 , 0.41 0.32 0.17 0.47	DF 1 1 1 thod: EF 1 1 1 1 1 1 1 1 1	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39 04/11/22 18:34 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5 460-00-4	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates	Lab ID: Results Analytical Pace Analytical	Units Method: EPA 8 ytical Services ug/L ug/L Method: EPA 6 ytical Services ug/L Method: EPA 8 ytical Services ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	Collected LOQ 015B Modifirer Green Bay 5.6 5.0 2.8 010D Preparer 100 260 Green Bay 1.0 1.0 1.0 1.0 1.0	LOD ed , 0.39 0.25 0.58 eration Mer , 56.7 , 0.41 0.32 0.17 0.47	DF 1 1 1 thod: EF	Prepared PA 3010A	Analyzed 04/11/22 12:39 04/11/22 12:39 04/11/22 12:39 04/11/22 18:34 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05 04/11/22 09:05	74-84-0 74-85-1 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5 460-00-4 2199-69-1	Qua



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

	Lab ID:	40243106010	Collected	04/06/22	2 11:10	Received: 04/	07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	,	Method: EPA 3							
Sulfate	5.0J	mg/L	10.0	2.2	5		04/12/22 03:56	14808-79-8	D3,M0
5310C TOC	-	Method: SM 53 ytical Services							
Total Organic Carbon	5.3	mg/L	0.50	0.14	1		04/14/22 04:55	7440-44-0	
Sample: MW-17	Lab ID:	40243106011	Collected	: 04/06/22	2 11:55	Received: 04/	07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	-	Method: EPA 8 ytical Services		ed					
Ethane	<0.39	ug/L	5.6	0.39	1		04/11/22 12:46	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		04/11/22 12:46	74-85-1	
Methane	<0.58	ug/L	2.8	0.58	1		04/11/22 12:46	74-82-8	
6010D MET ICP, Dissolved	-	Method: EPA 6 ytical Services			hod: EF	PA 3010A			
Iron, Dissolved	<56.7	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:37	7439-89-6	
8260 MSV	Analytical Pace Anal	Method: EPA 8							
		ytical ocivices	- Green Bay						
Tetrachloroethene	57.7	ug/L	- Green Bay 1.0	0.41	1		04/09/22 01:21	127-18-4	
	57.7 0.95J	-	-		1 1		04/09/22 01:21 04/09/22 01:21		
Trichloroethene Vinyl chloride	0.95J <0.17	ug/L	1.0 1.0 1.0	0.41 0.32 0.17				79-01-6	
Trichloroethene Vinyl chloride cis-1,2-Dichloroethene	0.95J <0.17 <0.47	ug/L ug/L ug/L ug/L	1.0 1.0 1.0 1.0	0.41 0.32 0.17 0.47	1 1 1		04/09/22 01:21 04/09/22 01:21 04/09/22 01:21	79-01-6 75-01-4 156-59-2	
Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene	0.95J <0.17	ug/L ug/L ug/L	1.0 1.0 1.0	0.41 0.32 0.17	1 1		04/09/22 01:21 04/09/22 01:21	79-01-6 75-01-4 156-59-2	
Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogate s	0.95J <0.17 <0.47 <0.53	ug/L ug/L ug/L ug/L ug/L	1.0 1.0 1.0 1.0	0.41 0.32 0.17 0.47	1 1 1 1		04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21	79-01-6 75-01-4 156-59-2 156-60-5	
Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates 4-Bromofluorobenzene (S)	0.95J <0.17 <0.47 <0.53	ug/L ug/L ug/L ug/L ug/L	1.0 1.0 1.0 1.0 1.0	0.41 0.32 0.17 0.47	1 1 1 1		04/09/22 01:21 04/09/22 01:21 04/09/22 01:21	79-01-6 75-01-4 156-59-2 156-60-5 460-00-4	
Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	0.95J <0.17 <0.47 <0.53	ug/L ug/L ug/L ug/L ug/L	1.0 1.0 1.0 1.0	0.41 0.32 0.17 0.47	1 1 1 1		04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21	79-01-6 75-01-4 156-59-2 156-60-5 460-00-4 2199-69-1	
Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S) Toluene-d8 (S)	0.95J <0.17 <0.47 <0.53 98 103 97 Analytical	ug/L ug/L ug/L ug/L ug/L %	1.0 1.0 1.0 1.0 1.0 70-130 70-130 70-130	0.41 0.32 0.17 0.47 0.53	1 1 1 1 1		04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21	79-01-6 75-01-4 156-59-2 156-60-5 460-00-4 2199-69-1	
Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S) Toluene-d8 (S) 300.0 IC Anions	0.95J <0.17 <0.47 <0.53 98 103 97 Analytical	ug/L ug/L ug/L ug/L ug/L % % %	1.0 1.0 1.0 1.0 1.0 70-130 70-130 70-130	0.41 0.32 0.17 0.47 0.53	1 1 1 1 1		04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21	79-01-6 75-01-4 156-59-2 156-60-5 460-00-4 2199-69-1 2037-26-5	
Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S) Toluene-d8 (S) 300.0 IC Anions Sulfate 5310C TOC	0.95J <0.17 <0.47 <0.53 98 103 97 Analytical Pace Anal 22.3 Analytical	ug/L ug/L ug/L ug/L ug/L % % % Method: EPA 3	1.0 1.0 1.0 1.0 1.0 70-130 70-130 70-130 00.0 Green Bay 2.0	0.41 0.32 0.17 0.47 0.53	1 1 1 1 1 1		04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21 04/09/22 01:21	79-01-6 75-01-4 156-59-2 156-60-5 460-00-4 2199-69-1 2037-26-5	



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Lab ID:	40243106012	Collected	: 04/06/22	2 12:40	Received: 04	/07/22 08:00 M	atrix: Water	
Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Analytical	Method: EPA 8	015B Modifi	ed					
Pace Ana	lytical Services	- Green Bay						
~0 3Q	ua/l	5.6	0.30	1		04/11/22 12:53	74-84-0	
	ū							
<0.58	ug/L	2.8	0.58	1				
Analytical	Method: EPA 6	010D Prepa	aration Me	hod: EF	PA 3010A			
Pace Ana	lytical Services	- Green Bay						
<56.7	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:39	7439-89-6	
Analytical	Method: EPA 8	260						
Pace Ana	lytical Services	- Green Bay						
36.2	ug/L	1.0	0.41	1		04/09/22 01:42	127-18-4	
0.58J	_	1.0	0.32	1				
<0.17	_							
<0.47				1				
<0.53		1.0	0.53	1				
	3							
96	%	70-130		1		04/09/22 01:42	460-00-4	
102	%	70-130		1		04/09/22 01:42	2199-69-1	
99	%	70-130		1		04/09/22 01:42	2037-26-5	
Analytical	Method: EPA 3	0.00						
Pace Ana	lytical Services	- Green Bay						
22.2	mg/L	2.0	0.44	1		04/11/22 19:26	14808-79-8	
Analytical	Method: SM 53	10C						
-								
1.0	mg/L	0.50	0.14	1		04/14/22 05:27	7440-44-0	
	Ü							
Lab ID:	40243106013	Collected	: 04/06/22	2 00:00	Received: 04	/07/22 08:00 M	atrix: Water	
Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Analytical	Mothod: EDA 9							
-								
		•		4		04/00/00 00:00	407 40 4	
	ū							
	•							
	ū							
	_							
<0.53	ug/L	1.0	0.53	1		04/09/22 02:02	156-60-5	
100	%	70-130		1		N4/N9/22 N2·N2	460-00-4	
99	70	10-130		1		04/09/22 02:02	2037-20-3	
	Analytical Pace Ana <0.39 <0.25 <0.58 Analytical Pace Ana <56.7 Analytical Pace Ana 36.2 0.58J <0.17 <0.47 <0.53 96 102 99 Analytical Pace Ana 22.2 Analytical Pace Ana 1.0 Lab ID: Results Analytical	Analytical Method: EPA 88 Pace Analytical Services 40.39 ug/L 40.25 ug/L 40.58 ug/L Analytical Method: EPA 68 Pace Analytical Services 456.7 ug/L Analytical Method: EPA 88 Pace Analytical Services 436.2 ug/L 40.58J ug/L 40.17 ug/L 40.47 ug/L 40.53 ug/L 96 % 102 % 99 % Analytical Method: EPA 38 Pace Analytical Services 42.2 mg/L Analytical Method: SM 53 Pace Analytical Services 51.0 mg/L Lab ID: 40243106013 Results Units Analytical Method: EPA 88 Pace Analytical Services 63 1.0 mg/L 40.32 ug/L 40.32 ug/L 40.47 ug/L 40.47 ug/L 40.53 ug/L	Results	Results	Results	Results Units LOQ LOD DF Prepared Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay -0.39 ug/L 5.6 0.39 1 -0.25 ug/L 5.0 0.25 1 -0.58 ug/L 2.8 0.58 1 Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay -56.7 1 04/11/22 06:17 Analytical Method: EPA 8260 Pace Analytical Services - Green Bay 36.2 ug/L 1.0 0.41 1 0.58J ug/L 1.0 0.41 1 0.58J ug/L 1.0 0.47 1 -0.17 ug/L 1.0 0.47 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 1 -0.17 -0.17 1	Results	Results

(920)469-2436



ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Sample: TRIP	Lab ID:	40243106014	Collected	I: 04/06/22	2 00:00	Received: 04/	07/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Ana	ytical Services	- Green Bay	/					
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/08/22 20:15	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/08/22 20:15	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/08/22 20:15	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/08/22 20:15	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/08/22 20:15	156-60-5	
Surrogates		•							
4-Bromofluorobenzene (S)	98	%	70-130		1		04/08/22 20:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/08/22 20:15	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		04/08/22 20:15	2037-26-5	



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

QC Batch: 412708 Analysis Method: EPA 8015B Modified

QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010,

40243106011, 40243106012

METHOD BLANK: 2376971 Matrix: Water

Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010,

40243106011, 40243106012

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	04/11/22 09:59	
Ethene	ug/L	<0.25	5.0	04/11/22 09:59	
Methane	ug/L	<0.58	2.8	04/11/22 09:59	

LABORATORY CONTROL SAMPLE &	LCSD: 2376972		23	376973						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Ethane	ug/L	53.6	51.8	52.0	97	97	74-120	0	20	
Ethene	ug/L	50	47.3	47.6	95	95	71-122	0	20	
Methane	ug/L	28.6	27.9	28.1	98	99	73-120	1	20	

MATRIX SPIKE & MATRIX SP	IKE DUPLI	ICATE: 2376	974		2376975							
			MS	MSD								
		40242847007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Ethane	ug/L	<7.9	1070	1070	1030	1070	96	100	70-120	3	20	
Ethene	ug/L	<5.0	1000	1000	968	1000	97	100	68-122	4	20	
Methane	ug/L	2800	571	571	2820	3890	4	191	10-200	32	20	M1,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

QC Batch: 412682 Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A Analysis Description: 6010D MET Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010,

40243106011, 40243106012

METHOD BLANK: 2376897 Matrix: Water

Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010,

40243106011, 40243106012

ParameterUnitsBlank Reporting ResultReporting LimitAnalyzedQualifiersIron, Dissolvedug/L<56.7</td>10004/12/22 17:58

LABORATORY CONTROL SAMPLE: 2376898

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 107 80-120 Iron, Dissolved ug/L 10000 10700

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376899 2376900

MS MSD 40242996011 Spike Spike

40242996011 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Iron, Dissolved 1170 10000 10000 12000 75-125 20 12000 109 108 ug/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

QC Batch: 412611 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40243106001, 40243106002, 40243106003, 40243106004, 40243106005, 40243106006, 40243106007, 40243106008, 40243106009, 40243106010, 40243106011, 40243106012, 40243106013, 40243106014

METHOD BLANK: 2376212 Matrix: Water

Associated Lab Samples: 40243106001, 40243106002, 40243106003, 40243106004, 40243106005, 40243106006, 40243106007,

40243106008, 40243106009, 40243106010, 40243106011, 40243106012, 40243106013, 40243106014

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/08/22 17:11	
Tetrachloroethene	ug/L	<0.41	1.0	04/08/22 17:11	
trans-1,2-Dichloroethene	ug/L	< 0.53	1.0	04/08/22 17:11	
Trichloroethene	ug/L	< 0.32	1.0	04/08/22 17:11	
Vinyl chloride	ug/L	<0.17	1.0	04/08/22 17:11	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	04/08/22 17:11	
4-Bromofluorobenzene (S)	%	97	70-130	04/08/22 17:11	
Toluene-d8 (S)	%	99	70-130	04/08/22 17:11	

LABORATORY CONTROL SAMPLE:	2376213					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	54.6	109	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.5	107	70-130	
Trichloroethene	ug/L	50	55.3	111	70-130	
Vinyl chloride	ug/L	50	46.6	93	63-142	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 2376	214		2376215							
			MS	MSD								
	4	0243104001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
cis-1,2-Dichloroethene	ug/L	3.2	50	50	56.3	56.6	106	107	70-130	0	20	
Tetrachloroethene	ug/L	0.45J	50	50	56.2	56.6	112	112	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	< 0.53	50	50	54.6	54.8	109	110	70-134	0	20	
Trichloroethene	ug/L	2.8	50	50	59.8	59.5	114	114	70-130	0	20	
Vinyl chloride	ug/L	<0.17	50	50	47.4	47.3	95	95	61-143	0	20	
1,2-Dichlorobenzene-d4 (S)	%						99	98	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						100	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



20.0156045.00 LRI BASELINE Project:

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Sulfate

QC Batch: 412621 Analysis Method: EPA 300.0 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

> Laboratory: Pace Analytical Services - Green Bay

40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010 Associated Lab Samples:

METHOD BLANK: Matrix: Water

Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010

> Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers < 0.44 2.0 04/11/22 16:12 mg/L

LABORATORY CONTROL SAMPLE: 2376287

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Sulfate 20 19.4 97 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376288 2376289

MSD MS 35707085011 Spike Spike

MS MSD MS MSD % Rec Max Units % Rec % Rec RPD Parameter Result Conc. Conc. Result Result Limits **RPD** Qual 13000 15 M0 Sulfate mg/L 1350 10000 10000 12500 116 112 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376290 2376291

MS MSD 40243106010 MS MSD MS MSD Spike Spike % Rec Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Sulfate 100 5.0J 100 116 115 111 15 M0 mg/L 110 90-110

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

QC Batch: 412664 QC Batch Method: EPA 300.0 Analysis Method:

EPA 300.0

Analysis Description:

300.0 IC Anions

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples: 40243106011, 40243106012

METHOD BLANK: 2376839 Associated Lab Samples: 4

Parameter

Parameter

Sulfate

Date: 04/14/2022 03:28 PM

Matrix: Water

Units

Units

40243106011, 40243106012

Blank Result

Reporting Limit

Analyzed Qualifiers

Sulfate mg/L <0.44 2.0 04/11/22 18:14

LABORATORY CONTROL SAMPLE: 2376840

Spike Conc.

20

LCS Result LCS % Rec % Rec Limits

Qualifiers

 Sulfate
 mg/L
 20
 20.2
 101
 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

2376841 MS

MSD

<u> </u>	mg/L	22.3	2
Parameter	Units	Result	Conc.
	40	0243106011	Spike

MSD Spike Conc.

MS MSD Result Result

44.0

2376842

MS % Rec

108

MSD % Rec % Rec Limits

109

Max RPD RPD

0 15

Qual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376843 2376844

MS

MSD

MSD

44.1

MSD

0/ D--

90-110

no May

35707486008 % Rec MS MSD MS MSD Spike Spike Max RPD RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Sulfate 100 27.6 100 132 133 104 105 15 mg/L 90-110

20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



20.0156045.00 LRI BASELINE Project:

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

QC Batch: 412974 Analysis Method: SM 5310C

QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon

> Laboratory: Pace Analytical Services - Green Bay

40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010, Associated Lab Samples:

40243106011, 40243106012

METHOD BLANK: 2377893 Matrix: Water

40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010, Associated Lab Samples:

40243106011, 40243106012

Blank Reporting Parameter Units Result Limit Qualifiers Analyzed **Total Organic Carbon** mg/L < 0.14 0.50 04/14/22 01:55

LABORATORY CONTROL SAMPLE: 2377894

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 103 80-120 **Total Organic Carbon** mg/L 12.5 12.8

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2377896 2377895

MSD MS

MS MSD 40243106002 Spike Spike MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual **Total Organic Carbon** 1.1 6 6 6.9 6.9 97 97 0 80-120 10 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 04/14/2022 03:28 PM

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.00 LRI BASELINE

Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
10243106002	MW-15	EPA 8015B Modified	412708	_	
10243106003	MW-1	EPA 8015B Modified	412708		
0243106004	PZ-1	EPA 8015B Modified	412708		
0243106007	MW-14	EPA 8015B Modified	412708		
0243106008	MW-2	EPA 8015B Modified	412708		
0243106009	MW-13	EPA 8015B Modified	412708		
0243106010	PZ-3	EPA 8015B Modified	412708		
0243106011	MW-17	EPA 8015B Modified	412708		
0243106012	MW-12	EPA 8015B Modified	412708		
0243106002	MW-15	EPA 3010A	412682	EPA 6010D	412892
0243106003	MW-1	EPA 3010A	412682	EPA 6010D	412892
0243106004	PZ-1	EPA 3010A	412682	EPA 6010D	412892
0243106007	MW-14	EPA 3010A	412682	EPA 6010D	412892
0243106008	MW-2	EPA 3010A	412682	EPA 6010D	412892
0243106009	MW-13	EPA 3010A	412682	EPA 6010D	412892
0243106010	PZ-3	EPA 3010A	412682	EPA 6010D	412892
0243106011	MW-17	EPA 3010A	412682	EPA 6010D	412892
0243106012	MW-12	EPA 3010A	412682	EPA 6010D	412892
0243106001	MW-3	EPA 8260	412611		
0243106002	MW-15	EPA 8260	412611		
0243106003	MW-1	EPA 8260	412611		
0243106004	PZ-1	EPA 8260	412611		
0243106005	MW-4	EPA 8260	412611		
0243106006	MW-16	EPA 8260	412611		
0243106007	MW-14	EPA 8260	412611		
0243106008	MW-2	EPA 8260	412611		
0243106009	MW-13	EPA 8260	412611		
0243106010	PZ-3	EPA 8260	412611		
0243106011	MW-17	EPA 8260	412611		
0243106012	MW-12	EPA 8260	412611		
0243106013	DUP-2	EPA 8260	412611		
0243106014	TRIP	EPA 8260	412611		
0243106002	MW-15	EPA 300.0	412621		
0243106003	MW-1	EPA 300.0	412621		
0243106004	PZ-1	EPA 300.0	412621		
0243106007	MW-14	EPA 300.0	412621		
0243106008	MW-2	EPA 300.0	412621		
0243106009	MW-13	EPA 300.0	412621		
0243106010	PZ-3	EPA 300.0	412621		
0243106011	MW-17	EPA 300.0	412664		
0243106012	MW-12	EPA 300.0	412664		
0243106002	MW-15	SM 5310C	412974		
0243106003	MW-1	SM 5310C	412974		
0243106004	PZ-1	SM 5310C	412974		
0243106007	MW-14	SM 5310C	412974		
0243106008	MW-2	SM 5310C	412974		

(920)469-2436



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.00 LRI BASELINE

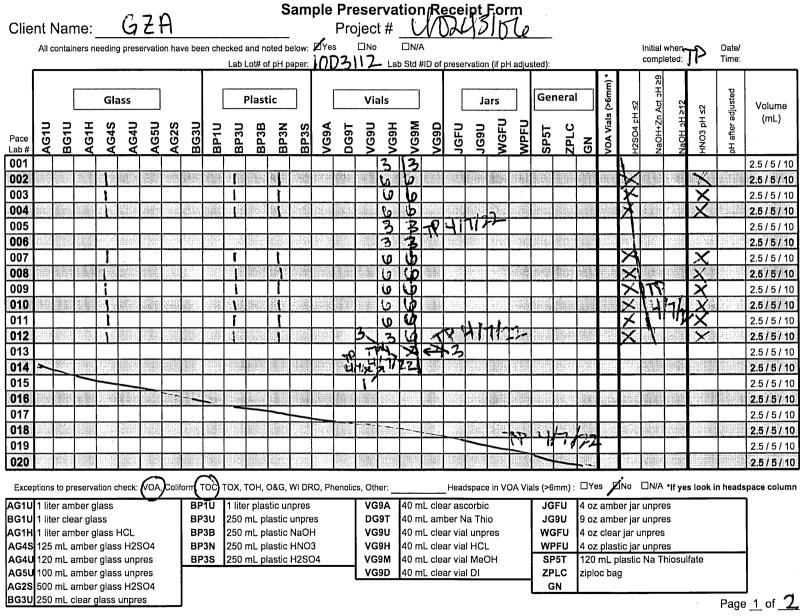
Pace Project No.: 40243106

Date: 04/14/2022 03:28 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243106009	MW-13	SM 5310C	412974		, ·
40243106010	PZ-3	SM 5310C	412974		
40243106011	MW-17	SM 5310C	412974		
40243106012	MW-12	SM 5310C	412974		

DC# Title: ENV-FRM-GBAY-0035 v01 Sample Preservation Receipt Form

Revision: 3 | Effective Date: | Issued by: Green Bay



DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR Revision: 3 | Effective Date: | Issued by: Green Bay

Sample Condition Upon Receipt Form (SCUR)

C 710			Project #:			
Client Name: 624				MO#:	402431	L 06
Courier: CS Logistics Fed Ex Speede	ee □l	JPS 🗆	Waltco			
☐ Client ☐ Pace Other:						
Tracking #:				40243106	88 81 81 8 8 8 8 18	
Custody Seal on Cooler/Box Present: yes	/no S	Seals inta	ict: ☐ yes ☐ no L			
Custody Seal on Samples Present: 🗀 yes 🌠	no S	Seals inta	nct: ☐ yes ☐ no			
Packing Material: Bubble Wrap Bubble	_					
Thermometer Used SR - 115	7.	Ice: V	et Blue Dry None	Samples of	Person examinin	
Cooler Temperature Uncorr: 1 /Corr: 7		 .			11/7/22	~
Temp Blank Present: ☐ yes ☑ no	E	Biologica	al Tissue is Frozen:	∐ yes∐ no	Date: 9 /////finit	ials:
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dr	y Ice.				Labeled By Initials:	15°
Chain of Custody Present:	Yes []No □N	I/A 1.			
Chain of Custody Filled Out:	□Yes 🌶	ÍNo □N	1/A 2. 79#		3 T	4/7/22
Chain of Custody Relinquished:	Yes [I/A 3.			
Sampler Name & Signature on COC:	∭ Yes □		I/A 4.			
Samples Arrived within Hold Time:	Yes [□No	5.			
- VOA Samples frozen upon receipt	□Yes □	□No	Date/Time:			
Short Hold Time Analysis (<72hr):	□Yes	No	6.		· .	
Rush Turn Around Time Requested:	□Yes	ZNo	7.			
Sufficient Volume:			8.			
For Analysis:	:□Yes 🌶	No OV	I/A			
Correct Containers Used:	☑Yes [□No	9.			
-Pace Containers Used:	ØYes □	□No □N	I/A			
-Pace IR Containers Used:	□Yes [JNo ØN	I/A			
Containers Intact:	Yes [□No	10,11122			
Filtered volume received for Dissolved tests	Yes [MA 11.		- 111.6	
Sample Labels match COC:	□Yes	No □N	1/A 12. 5003	Jub-7	on bottles	75/7177
-Includes date/time/ID/Analysis Matrix:	W					
Trip Blank Present:	ØYes [NO ON	I/A 13.			
Trip Blank Custody Seals Present	Z ÍYes 🤰	W° ⊡ V	7777			
Pace Trip Blank Lot # (if purchased):				 		
Client Notification/ Resolution:		Da	lf c te/Time:	checked, see attac	ched form for additional	comments
Person Contacted: Comments/ Resolution:			to Time.			
Commontor Rossianon						
				·		
PM Review is documented electronically in LIM	s. By rele	easing tl	he project, the PM ac	knowledges th	ey have reviewed th	e sample logir

Qualtrax Document ID: 41292

Pace Analytical Services, LLC



APPENDIX C

INJECTION WELL CONSTRUCTION DOCUMENTATION

State of Wisconsin	Vatershed/Wastewater	Waste Mana	gement	MONITORING WELL Form 4400-113A	CONSTRUCTI	ION
Department of Natural Resources Route to: V	Remediation/Redevelopment	X Other				
Facility/Project Name				Well Name IJ-1		
Leather Rich Inc	ft.	□ N. S	ft. 🖁 E.	Wis, Unique Well No.		-
Facility License, Permit or Monitoring No.	Local Grid Origin [(esti	mated: 🗆) or	Well Location		NA _	dt
NA	Lat. 43° 4 31. 10	"Long. 88 ° 28	3 <u>26.34</u> or	NA	<u>INA</u>	_
Facility ID		N,		Date Well Installed	28 / 2022	
268414850	Section Location of Waste/S			Well Installed By: Nan		
Type of Well	NE 1/4 of NW 1/4 of Se		N, R. 17 W	Tony Kapugi	ie (ilist, iast) and i	r actor
Well Code 61/JJ	Lagation of Well Relative to	Waste/Source	Gov. Lot Number	- Tony Kapugi		
Distance from Waste/ Enf. Stds.	u 🗆 Upgradient s	☐ Sidegradient	137020131077	On-Site Environ	mental Service	es, In
Source ~250 ft. Apply	d XI Downgradient n	☐ Not Known	-		☐ Yes 🏿 N	To
A. Protective pipe, top elevation	ft. MSL		. Cap and lock?		L Cs M	10
			2. Protective cover		_8	in
B. Well casing, top elevation	ft. MSL		a. Inside diamete	r:	NA- Flush	
C. Land surface elevation = = -	ft. MSL		b. Length:			0.4
	100 Page 100	1	c. Material:	el flush mount cover		886
D. Surface seal, bottom ft. M.					☐ Yes ☐ N	444
12. USCS classification of soil near scree	u:	N /	d. Additional pro		L 103 L 1	10
	SW 🛛 SP 🗌	11 18/ /	If yes, describ)e:	Bentonite 🏻	30
On a second	CL CH CH C		3. Surface scal:		Demonite =	01
Bedrock □		M M \			Other 🗆	90000
1	Yes 🛛 No	M M `	·	77 ·1atach		***
14. Drilling method used:	otary 🗆 5 0	₩ ₩	4. Material between	n well casing and protect	Bentonite 🖾	30
Hollow Stem A		₩ ₩			20.0220.0010	
	Other 🗆 🕮	₩ ₩		eal: a. Granular/Chipp		33
			5. Annular space s	eal: a. Granular/Cmpp	a cond slurge []	35
15. Drilling fluid used: Water □ 0 2	Air 01	**	bLbs/gal	mud weight Bentonit	e-salid starty \square	31
Drilling Mud □ 0 3	None 🛛 99	3 8	cLbs/gal	mud weight Bentanita	comen grout	50
10 10	Vas M No	8 8	d % Bento	nite Bentonite-	of the above	JU
16. Drilling additives used?	Yes 🛛 No	₩ ₩	0.		Tremie	0 1
		₩ ₩	f. How installed	d: Tres	mie pumped 🗆	02
Describe NA		3 100		110	Gravity 🛛	08
17. Source of water (attach analysis, if rec	luneu).	# 	6. Bentonite seal:	a. Benton	nite granules [33
NA		33 133	b. Benionie seal:	Ø3/8 in. □1/2 in. Be		32
()	0.5.0	M M /	b. шт/4 m. у	2010 III 212 III. De	Other	22
E. Bentonite seal, top ft. M	SL or _ 0.5 11.		С			
	ny 17 A.			ial: Manufacturer, produ	act name & mesh	size
F. Fine sand, top ft. M	SL or17 ft.	圏 圏/ ノ	3	R.W Sidley 30/100		
C. 18	10 ft		h Volume add	ed 0.25 f	13	
G. Filter pack, top ft. M	SL or _ <u>18</u> ft.		9 Eiltes nack mate	erial: Manufacturer, prod	luct name & mesh	h size
c. 3.4	ISL or 20 ft.	開開 ノ	o. Filter pack max	R.W Sidley # 5		\$5000 \$1000
H. Screen joint, top	SL or _ Zo IL		a b. Volume add		ft ³	-
			9. Well casing:	Flush threaded PVC	schedule 40 🛮	23
I. Well bottom	'ST or Tr		J. Well cashig	Flush threaded PVC:	schedule 80 🗆	24
6.11	ISL or 30 ft.				Other	
J. Filter pack, bottom ft. M	'SL of _ == 11.		10. Screen materia	1: PVC		888
0. 3.1	rer 30 ft.		a. Screen type:		Factory cut X	11
K. Borehole, bottom	IST OFIII		a. Scientispo		ntinuous slot 🛚	01
0	_				Other 🗆	88
L. Borehole, diameter $-2 - in$.			b. Manufacture	Monoflex		
4.045			 b. Manufacture c. Slot size: 		001	
M. O.D. well casing 1.315 in.		/	d. Slotted leng	th:	1	10 ft.
1 020				al (below filter pack):	None 🛛	14
N. I.D. well casing	t0		11. Duckim matori	(2444 L L	Other 🗆	
	To form to two and governt to	the best of my kr	owledge.			
I hereby certify that the information on the	Firm	all book of hij ki	PECKE 1000 TO			_
Signature Slephenson		A GeoEnvironi	mental, Inc.			

State of Wisconsin	Watershed/Wastewater	Waste Mana	gement	MONITORING WELL Form 4400-113A	CONSTRUCTION	N
Department of Natural Resources Route to: V	Remediation/Redevelopment	Other	• • • • • • • • • • • • • • • • • • •			-
Facility/Project Name				Well Name		
Leather Rich Inc	Local Grid Location of Well ft.	∃S	ft. E.	Wis, Unique Well No.	DND Wall ID No	-
Facility License, Permit or Monitoring No.	Local Grid Origin (estim	ated: 🗆) or	Well Location		NA	
NA	Lat. 43° 4 ' 31. 11 "	Long. 88 ° 28	3 <u>26.52</u> or	NA	<u>_NA</u>	7
Facility ID		٧,		Date Well Installed	28 / 2022	
268414850	Section Location of Waste/So			Well Installed By: Nam		
Type of Well	NE 1/4 of NW 1/4 of Sec		N, R. 17 🗆 W	Tony Kapugi	e (mst, last) and i m	
Well Code 61/JJ	Location of Well Relative to	Waste/Source	Gov. Lot Number			
Distance from Waste/ Enf. Stds.	u 🗆 Upgradient s L	_ Sidegradient	1.5000000000000000000000000000000000000	On-Site Environn	nental Services,	, In
Source ~250 ft. Apply	d XI Downgradient n	Not Known			☐ Yes ☒ No	
A. Protective pipe, top elevation	ft. MSL		. Cap and lock?		☐ 1.62 M 140	
			2. Protective cover		_8 _ in.	,
B. Well casing, top elevation	ft, MSL		a. Inside diamete	τ:	NA- Flush ft.	
C. Land surface elevation = = -	ft. MSL		b. Length:		Steel IXI 04	
	**************************************	1	c. Material:	el flush mount cover	Other 🗆 🧠	144
D. Surface seal, bottom ft. M.		J. X.			☐ Yes ☐ No	200
12. USCS classification of soil near scree	in:	N.	d. Additional pro		[] 103 [] 110	
	SW 🖾 SP 📙	1 18/ /	If yes, describ)e;	Bentonite D 30	n
On a second	CL CH CH C		3. Surface scal:		Concrete 🖾 01	
Bedrock 🗆	1 🐯				Other 🗆	200
13. Sieve analysis performed?	Yes ⊠ No		0	77 1 1 -4.44	300,00	
14. Drilling method used:	otary 🗆 5 0	i 1881	4. Material between	n well casing and protective	Bentonite 🛛 3	0
Hollow Stem A	uger 🛛 41				Other 🗆	6000
	Other 🗆 🎎	a 1881		eal: a. Granular/Chippe		
			Annular space s	eal: a. Granular/Chippe	e-sand shirry 3	
15. Drilling fluid used: Water □ 0 2	Air 01		bLbs/gal	mud weight Bentonite	onite shurry D 3	
Drilling Mud □ 0 3	None 🛛 99	8 88	cLbs/gal	mud weight Bente	Ollifo digity	
101 10	Vas MNo	3 883	d % Bento	nite Bentonite-c	of the above	U
16. Drilling additives used?	Yes 🛛 No	3 🔯	C			1
- NA		8 88	f. How installed	d: Tren		2
Describe NA	inadia	A 1881		1101	·	8 (
17. Source of water (attach analysis, if rec	quired):	8 🕮		a Renton		3
NA			6. Bentonite seal:	23/8 in. □ 1/2 in. Bei		3 2
		A 1881 /	ъ. ⊔1/4 п. ј	ות פוכים. ביינו ביינו ביינו	Other 🗆 🥸	
E. Bentonite seal, top ft. M	SL or _ 0.511.		С		850	
	\ W		7. Fine sand mater	ial: Manufacturer, produ	ict name & mesh siz	ze
F. Fine sand, top ft. M	ISL or17 ft.			R.W Sidley 30/100		
	10 0		1. M. I	ed 0.25 ft	3	
G. Filter pack, top ft. M	ISL or _ 18 ft.		9. Filter-nels mate	erial: Manufacturer, produ		ize
	20 0		8. Filler pack may	R.W Sidley # 5	187	38
H. Screen joint, top ft. M	ISL or _ 20 ft.		a. Volume add		1 3	-
	Y .	國子	9. Well casing:	Flush threaded PVC se		23
I. Well bottom	ISL or _30ft.	屋!	J. Well cashing	Flush threaded PVC s	chedule 80 🛘 2	24
	ISL or 30 ft.			1 Addit miles	Other 🗆 🖁	
J. Filter pack, bottom ft. M	ISL or _50 II.		10. Screen materia	1: PVC	90	
	30 0		a. Screen materia	·		11
K. Borehole, bottom	ISL of _55III.		a. Screen type		· · · ·	01
	<u> </u>					54
L. Borehole, diameter $-2 - = in$			b. Manufacture	Monoflex		aran.
4.045		/	 b. Manufacture c. Slot size: 		001_	în.
M. O.D. well casing 1.315 in.		/	d. Slotted leng	th:	10	
1.020		- 3		al (below filter pack):	None 🛛 1	14
N. I.D. well casing 1.029 in	±0		11. Dackini match	or (norou tures husel)		
	1. C	he hest of my kn	owledge.			_
I hereby certify that the information on the	is form is true and correct to t	in ocstor my Ki				
Signature Slephenson	Firm	. GeoEnvironr	mental. Inc.			

State of Wisconsin	Vatershed/Wastewater	Waste Mana	gement	MONITORING WELL Form 4400-113A	CONSTRUCT	NOL
Department of Natural Resources Route to: V	Remediation/Redevelopment	Other	• • • • • • • • • • • • • • • • • • •			
Facility/Project Name				Well Name IJ-3		
Leather Rich Inc	<u>f</u> t.	□ N. □ S	ft. E.	Wis, Unique Well No.		0
Facility License, Permit or Monitoring No.	Local Grid Origin [(estin	nated: 🗆) or	Well Location		NA_	u.
NA	Lat. 43° 4 31.11	"Long. <u>88 ° 28</u>	3 <u>26.67</u> or	NA NA	<u>INA</u>	
Facility ID		N,		Date Well Installed	28 1 2 0 2 2	2
268414850	Section Location of Waste/Se			Well Installed By: Nar		
Type of Well	NE 1/4 of NW 1/4 of Sec		N, R. 17 🗆 W	Tony Kapugi	ie (mst, iast) and	Little
Well Code 61/JJ	Location of Well Relative to	Waste/Source	Gov. Lot Number	Torry Kapugi		
Distance from Waste/ Enf. Stds.	u Upgradient s	☐ Sidegradient	1.5000000000000000000000000000000000000	On-Site Environ	mental Servic	es, In
Source ~250 ft. Apply	d XI Downgradient n	☐ Not Known			☐ Yes 🏻]	No
A. Protective pipe, top elevation	ft. MSL		. Cap and lock?		I tes M	130
		D 85/	2. Protective cover		8	in
B. Well casing, top elevation	ft. MSL		a. Inside diamete	τ:	NA- Flush	
C. I. day for all parties	ft. MSL	1 IL	b. Length:			0.4
	San Control of the Co	1	c. Material:	. I. 61	0.000	100
D. Surface seal, bottom ft. Ma	SL or II.	上 被		el flush mount cover	Other 🗆	-
12. USCS classification of soil near scree	an:	I Market	d. Additional pro		☐ 1es ☐	NO
GP □ GM □ GC □ GW □ :	SW 🛛 SP 🗆 📗 🗎	1 18/ /	If yes, describ	e:		30
SM □ SC □ ML□ MH□	CL CH CH C		3. Surface scal:		Bentonite 🗆	01
Bedrock □			J, 00, 1000 00-1.		Concrete 🛛	400000
13. Sieve analysis performed?	Yes ⊠ No				Other 🗆	Sec. 270
14. Drilling method used:	otary □ 50	8 188	 Material between 	n well casing and protect	ive pipe:	30
Hollow Stem A	1 0	8 188			Bentonite 🛛	100000000
	Other 🗆 📗	X 188			Other 🗆	2.2
	8		Annular space s	eal: a. Granular/Chipp	ed Bentonite Ki	33 35
15. Drilling fluid used: Water 1 0 2	Air 🗆 01 📗		bLbs/gal	mud weight Bentonit	e-sand slurry	
Drilling Mud □ 0 3	None 🛛 99	3 13	a Lhs/gal	mud weight Ben	tonite slurry	31
		8 88	d % Bento	nite Bentonite-	cement grout	50
16. Drilling additives used? □	Yes 🛛 No	9 100	eF	volume added for any	of the above	0.1
	1	₩ ₩	f. How installe	d:		01
DescribeNA		3 83		Tre	mie pumped Gravity	02
17. Source of water (attach analysis, if rec	quired):	3 8		- Do-to	nite granules	08 33
NA NA		3 133	6. Bentonite seal:			32
		₩ .	ъ. □1/4 in. ∫	Ø3/8 in. □1/2 in. Be		32
E. Bentonite seal, top ft. M	SLor_0.5fl.	X XX /	c		Other 🗆	100
	\ K		7 Fine sand mater	ial: Manufacturer, prod	uct name & mesl	h size
F. Fine sand, top ft. M	SL or17ft.	2 2 / /		R.W Sidley 30/100		
			a		ft ³	****
G. Filter pack, top ft. M	ISL or _ <u>18</u> ft.		b. Volume add			sh size
	20		8. Filter pack mate	erial: Manufacturer, prod R.W Sidley # 5	HICE HAINE BE INCO	1888
H. Screen joint, top	ISL or _ 20 ft.	+	a		ft ³	***
		圖子	b. Volume add	ed1.5 Flush threaded PVC		23
I. Well bottomft. M	ISL or _30ft.		9. Well casing:	Flush threaded PVC	schedule 80 🖂	24
	_			Flush threaded 1 4 C	Other	
J. Filter pack, bottom ft. M	ISL or _ 30 ft.			1: PVC	Other D	
			10. Screen materia	·	Factory cut X	
K. Borehole, bottom	ISL or _SUIII.		 a. Screen type 		ntinuous slot	
	_			CO.	Other \square	100
L. Borehole, diameter $-2 - in$.				Monoflex	Onter L	200200
			b. Manufacture	- Worldlick		11_ in.
M. O.D. well casing 1.315 in.		1	c. Slot size:	th.		10 ft.
_		,	d. Slotted leng		None 🛛	
N. I.D. well casing 1.029 in.	• 0		11. Backfill materi	al (below filter pack):	Other 🗆	
_			- Auden		- July 1	42.40
I hereby certify that the information on the	is form is true and correct to	the best of my kn	iowieage.			
Signature	Firm					
Stephenson	I GZ/	A GeoEnvironr	nental, inc.			

Remarkation Reduced present Coale Grid Castion of West Restaurable Castion of West Cas	State of Wisconsin	Vatershed/Wastewater	Waste Mana	gement	MONITORING WELL Form 4400-113A	CONSTRUCTIO	N
Facility Licenses, Permit or Monitoring No. Local Grid Docation of Well No. Local Grid Docation No. Cestimated:	Department of Natural Resources Route to: V	Remediation/Redevelopment	X Other	•			-
Castimate Cast					Well Name		
Facility No.	- Control of the Cont	ft.	☐ S	ft. 🗆 W.			_
Facility ID 268414850 St. Pilme	Facility License, Permit or Monitoring No.	Local Grid Origin (esti	mated: 🗆) or	Well Location			
Facility D 268414850 Section Location of Waste/Source N. P. 1. F. E. S/CN/ Section Location of Waste/Source N. P. 1. 1. 1. 1. 1. 1. 1.		Lat, 43 4 30.99	"Long. 88 ° 28	8 <u>26.72</u> or	NA NA		7
Section Location of Waste/Source Type of Well Section Location of Waste/Source No. 14 No.	Facility ID				Date Well Installed 4 /	28 / 2022	
Type of Well					111 111		
	Type of Well			N. R. 17 岗 🕏		ne (mst, last) and i n	XIII.
Distance from Waster Stock Eaf. Stds. Stds Downgradient Namular space seal;	(1T)	Lagation of Well Relative to	Waste/Source		Torry Kapugi		
Source 250 ft Apply Downgradient n Not Known Not Kno	Distance from Waste/ Enf. Stds.	u 🗆 Upgradient s	☐ Sidegradient		On-Site Environ	mental Services	s, In
A. Protective pips, top elevation		d XI Downgradient n	☐ Not Known			CI Van M No	-
B. Well casing, top clevation	A Protective pine ton elevation					☐ 1.c2 ☑ 140	65
B. Well casing, top elevation						8 in	1
C. Land surface elevation	B. Well casing, top elevation	II, MISL			π:	THE CO. LEWIS CO., LANSING, MICH.	
D. Surface seal, bottom	C. Land myfaco algustica	ft. MSL		•			
Surface Seal, Solidional protection? Yes No No Sty		AND THE RESERVE AND ADDRESS OF THE PARTY OF	1		ol fluch mount cover	200	200
12. USCS classification of soil near screen: GP GM GC GW SW M SP SH SC MI MH CI CH Bedrock 13. Sieve analysis performed? Yes No 14. Drilling method used: Rotary 5 0 Hollow Stem Auger M 41 Other Other 15. Drilling fluid used: Water 0.2 Air 0.1 Drilling Mud 0.3 None M 99 16. Drilling additives used? Yes M No Describe NA Describe NA Describe NA			J. A.				20000
SM SC ML MH CL CH Bedrock 3. Surface seal: Sententie 30 Concrete 30 Co	12. USCS classification of soil near scree	u:	N.			[] 163 [] 140	•
SM SC ML MH CL CH Bedrock	GP□GM□GC□GW□	SW 🛛 SP 🗆 📗 🔪 🕻	11 18/ /	If yes, descrit	e:		0
Bedrock Steep analysis performed? Yes No 14. Drilling method used: Rotary 5 0 Hollow Stem Auger Material Steep Auger Material Dother Material Dother Material Dother Material Dother Material Dother Material Drilling fluid used: Material Drilling fluid used: Material Dother Material Drilling fluid used: Material Drilling fluid used: Material Dother Material Drilling fluid used: Material Dother Material Drilling fluid used: Material Dother Mater	On a second	сг 🗆 сн 🗗 🦼		3. Surface scal:		DCIIconico -	
14. Drilling method used: Rotsay 50 Hollow Stem Auger May 15 Other May Material between well casing and protective pipe: Bentonite May 30 Other May Material between well casing and protective pipe: 31 Other May Material between well casing and protective pipe: 30 Other May 31 Other May Material between well casing and protective pipe: 31 Other May Material between well casing and protective pipe: 30 Other May Material between well casing and protective pipe: 31 Other May Material between well casing and protective pipe: 30 Other May Material between well casing and protective pipe: 30 Other May Ma	_					2000	200
Hollow Stem Auger Main All Other Main Stem Main M	13. Sieve analysis performed?	Yes ⊠ No	M M \	3 	77 1 1	300.0	
Hollow Stem Auger	14. Drilling method used:	stary 🗆 50	₩ ₩	4. Material between	n well casing and protect	Dentonite 🕅 3	LD.
S. Annular space scal: a. Granular/Chipped Bentonite M 3 3	Hollow Stem A	uger 🛛 41	₩ ₩			2,000	100000
15. Drilling fluid used: Water 0 2)ther 🗆 🕮	₩ ₩		Communication (China		
Drilling Mud 0 3 None 9 9 16. Drilling additives used? Yes No Describe NA 17. Source of water (attach analysis, if required): NA 18. Bentonite seal;		_		Annular space s	eal: a. Granular/Chipp	ed Bentonne A 3	
16. Drilling additives used? Yes No	15. Drilling fluid used: Water □ 0 2		**	bLbs/gal	mud weight Bentomit	e-sand sidity \Box 3	
16. Drilling additives used? Yes No Poscribe NA	Drilling Mud □ 0 3	None KI 99	* 	cLbs/gal	mud weight Ben	CHILD GIGILY	
Describe NA 17. Source of water (attach analysis, if required): NA	10 10	Van M No	8 8	d % Bento	nite Bentome-	of the above	, 0
Describe NA 17. Source of water (attach analysis, if required): NA E. Bentonite seal, top ft. MSL or _ 0.5 _ ft. F. Fine sand, top ft. MSL or _ 17 _ ft. G. Filter pack, top ft. MSL or _ 20 _ ft. H. Screen joint, top ft. MSL or _ 30 _ ft. I. Well bottom ft. MSL or _ 30 _ ft. J. Filter pack, bottom ft. MSL or _ 30 _ ft. J. Filter pack, bottom ft. MSL or _ 30 _ ft. K. Borehole, diameter _ 2 _ in. M. O.D. well easing _ 1.315 _ in. D. How installed: Tretrile pumped	16. Drilling additives used?	Tes KINO	≋ ≋	C			0.1
17. Source of water (attach analysis, if required): NA	N		XX XX	f. How installed	d: Tre		
Solute of water (attack markys), it expenses 13 markys 13 ma		ima dNe	33 133		110		-
E. Bentonite seal, top	•	luirea):	# 		a Rento		
E. Bentonite seal, top	NA		22 124	b. Bentonite seat:			
E. Bentonite seal, top ft. MSL or 17 ft. F. Fine sand, top ft. MSL or 17 ft. G. Filter pack, top ft. MSL or 18 ft. H. Screen joint, top ft. MSL or 20 ft. I. Well bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley 30/100 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer, product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer pack material: Manufacturer product name & mesh size R.W Sidley #5 ft. J. Filter pack material: Manufacturer product name & mesh size R.W Sidley			M M ,	ъ. 🗆 1/4 пг. ј	אם אות שלו ביות פלכוש	Other Π	
F. Fine sand, top ft. MSL or 17 ft. ft. MSL or 18 ft. ft. MSL or 20 ft. MSL or 30 ft. MSTA or 30 ft.	E. Bentonite seal, top ft. M	SL or _ 0.5 11.		c		855	
G. Filter pack, top ft. MSL or18ft. H. Screen joint, topft. MSL or20ft. E. Well bottomft. MSL or30ft. J. Filter pack, bottomft. MSL or30ft. K. Borehole, bottomft. MSL or30ft. E. Borehole, diameter		17 0	M M /	7. Fine sand mater	rial: Manufacturer, prod	uet name & mesh si	ize
H. Screen joint, top ft. MSL or 20 ft. I. Well bottom ft. MSL or 30 ft. I. Well bottom ft. MSL or 30 ft. I. Filter pack, bottom ft. MSL or 30 ft. I. Borehole, bottom ft. MSL or 30 ft. I. Borehole, diameter 2 in. I. Borehole, diameter 2 in. I. Borehole, diameter 1. Manufacturer, product name & mesh size R. W Sidley # 5 ft. I. Well bottom ft. MSL or 30 ft. I. Well bottom ft. MSL or 30 ft. I. Borehole, bottom ft. MSL or 30 ft. I. Borehole, diameter 2 in. I. Borehole, diameter 2 in. I. Borehole, diameter 2 in. I. Borehole, diameter 1. Store material: PVC for interval in the product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Screen material: PVC for interval in the product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Store material: PVC for interval in the policy of the policy filter pack in the product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Store material: Manufacturer, product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Store material: Manufacturer, product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Store material: Manufacturer, product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Sore material: Manufacturer ft. I. Sore material	F. Fine sand, top ft. M	SL or!/ ft.	図 翠/ /				
H. Screen joint, top ft. MSL or 20 ft. I. Well bottom ft. MSL or 30 ft. I. Well bottom ft. MSL or 30 ft. I. Filter pack, bottom ft. MSL or 30 ft. I. Borehole, bottom ft. MSL or 30 ft. I. Borehole, diameter 2 in. I. Borehole, diameter 2 in. I. Borehole, diameter 1. Manufacturer, product name & mesh size R. W Sidley # 5 ft. I. Well bottom ft. MSL or 30 ft. I. Well bottom ft. MSL or 30 ft. I. Borehole, bottom ft. MSL or 30 ft. I. Borehole, diameter 2 in. I. Borehole, diameter 2 in. I. Borehole, diameter 2 in. I. Borehole, diameter 1. Store material: PVC for interval in the product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Screen material: PVC for interval in the product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Store material: PVC for interval in the policy of the policy filter pack in the product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Store material: Manufacturer, product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Store material: Manufacturer, product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Store material: Manufacturer, product name & mesh size R. W Sidley # 5 ft. I. Volume added 1.5 ft. I. Volume added 1.5 ft. I. Sore material: Manufacturer ft. I. Sore material		10 6		h. Maluma add	ad 0.25	 3	
H. Screen joint, top	G. Filter pack, top ft. M	.SL or _ 10 II.		9. Volume and			size
H. Screen joint, top It. WSL or 30 ft. I. Well bottom ft. MSL or 30 ft. J. Filter pack, bottom ft. MSL or 30 ft. I. Well bottom ft. MSL or 30 ft. I. Filter pack, bottom ft. MSL or 30 ft. I. Borehole, bottom L. Borehole, diameter 10. Screen material: a. Screen type: Factory cut 11 Continuous slot 01 Continuous slot 01 Other B. Manufacturer Continuous slot 01 Continuous slot 01 I. Backfill material (below filter pack): None 11 Intereby certify that the information on this form is true and correct to the best of my knowledge.		20 0		8. Filler pack may	R.W Sidley # 5	1	388
I. Well bottom	H. Screen joint, top ft. M	SL or _ 20 11.		a		ft.3	
I. Well bottom It. MSL or 30 ft. It. MSL or 30 ft			日間イ				23
I. Filter pack, bottom	I. Well bottom	SL or _ 55 11.		J. Well casing.	Flush threaded PVC	schedule 80 🔲 🖸	24
I. Filter pack, bottom It. MSL or 30 ft. It. MSL or 40 ft. It. MSL		ror 30 A-			I Iddii iii dadaya a sa a sa a sa a sa a sa a sa a	Other 🗆	
K. Borehole, bottomft. MSL or _30ft.	J. Filter pack, bottom ft. M	ISL or _ 50 II.		10 Farmanataria	1. PVC		0000000
L. Borehole, diameter		30 0					
L. Borehole, diameter	K. Borehole, bottom ft. M	ISL of _ OO II.		a. Screen type			
L. Borehole, diameter -2 - in. b. Manufacturer Monoflex c. Slot size: d. Slotted length: N. I.D. well casing 1.029 in.		_					Line de
M. O.D. well easing 1.315 in. C. Slot size: d. Slotted length: N. I.D. well casing 1.029 in. 11. Backfill material (below filter pack): None 14 Other Thereby certify that the information on this form is true and correct to the best of my knowledge.	L. Borehole, diameter $-2 - = in$.	1		1 Manufacture	Monoflex		30.00
M. O.D. well easing 1.029 in. 1. Backfill material (below filter pack): None 14 Other 14 Thereby certify that the information on this form is true and correct to the best of my knowledge.	4.045		/		-	001_	in.
N. I.D. well casing 1.029 in. 11. Backfill material (below filter pack): None \(\text{N} \) 14 Other \(\text{Other} \)	M. O.D. well casing 1.315 in.	,	/		rth:		
N. I.D. well casing in. Other Other Other	1.020		,			None 🛛	14
I hereby certify that the information on this form is true and correct to the best of my knowledge.	N. I.D. well casing 1.029 in	ŧo.		11. Dackini materi	or (notes, twee busin)		
			the best of my br	nowledge.			
PITM		as form is true and correct to	the best of my Ki	io a lougo.			
Signature Slephenson GZA GeoEnvironmental, Inc.	Signature Sections		'A GeoFnviron	mental, Inc			

State of Wisconsin	Vatershed/Wastewater [_ v	aste Mana	gement [MONITORING WEL Form 4400-113A	L CONSTRUC Rev. 7-98	TION
Department of Natural Resources Route to: V	Remediation/Redevelop	ment X	ther 🔲 🗕	• Andrewson Art. • — — — — — — — — — — — — — — — — — —			
Facility/Project Name	Local Grid Location of				Well Name	E	
Leather Rich Inc	R=====	_ft. S.		tr. 🗆 w.			No
Facility License, Permit or Monitoring No.	Local Grid Origin	(estimated:	□) or	Well Location		NA NA	
NA	Lat. 43 4 30). 98 "Long	g. <u>88 ° 28</u>	3 <u>26.56</u> c	v- I INA	<u>INA</u>	
Facility ID	St. Plane				Date Well Installed 4	128 1202	2
268414850	Section Location of W				III III		
Type of Well	NE 1/4 of NW 1/4		т. 7	N, R. 17 🖺 N	Tony Kapugi		d I ittii
Well Code 61/JJ	Location of Well Rela	tive to Waste	/Source	Gov. Lot Number	Tony Kapugi		-
Distance from Waste/ Enf. Stds.	u 🖂 Upgradient	s 📙 81	degradieni		On-Site Enviro	nmental Servi	ces, In
Source ~250 ft. Apply	d XI Downgradient	n 🗆 N	ot Known			☐ Yes 🏻	NT-
	ft. MSL —		· _ 1	. Cap and lock?		☐ Yes ⊠	NO
		- $+$ $ -$	2	. Protective cove		8	_in.
B. Well casing, top elevation	ft. MSL			a. Inside diame	ter:	NA- Flusi	-
	ft. MSL	411		b. Length:			
	derite 1	286	100000000000000000000000000000000000000	c. Material:		Steel 🔯	m.100 (\$154.4)
D. Surface seal, bottom ft. Ma	SL or ft.				eel flush mount cover		62200000
12. USCS classification of soil near scree		350V	1	d. Additional p		☐ Yes ☐	140
GP □ GM □ GC □ GW □ :	SW Ճ SP □	/ FI	3/ /	If yes, descr	ibe:		D ()
SM SC ML MH	CL CH CH C	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1/	S. Surface scal:		Bentonite 🗆	30
Bedrock 🗆		1891 18	Ø /	o, Surface scar.		Concrete 🛛	A505500x
13. Sieve analysis performed?	Yes 🛛 No	W 18	* \			Other 🗆	40,00
	otary 🗆 5 0	1881 18	∭ ∠	. Material between	en well casing and protec	stive pipe:	0004
14. Drilling method used: Ro		1881 18	3			Bentonite 🛛	4.660.00000
Honow Stellt A	Other 🗆	1881 18	Ä			Other 🗆	
	Julior — Joseph	£28 B		5. Annular space	seal: a. Granular/Chip	pped Bentonite 🛭	33
15. Drilling fluid used: Water □ 0 2	Air 🗆 01	1888 18		1. I.hs/92	ıl mud weight Benton	rite-sand slurry 🗆	35
Drilling Mud 0 3	None Ø 99	SS 8	8	 Lhs/gs 	d mud weight Be	intonite slurry \square	1 21
	110.00 74		8	d % Ben	tonite Bentonite	e-cement grout 🗆	50
16. Drilling additives used?	Yes 🛛 No	1883 R	8	a	Ft ³ volume added for an	y of the above	
10.2			8	f. How install		Tremie 🗆	01
Describe NA			8	I. Flow histan	Tr	remie pumped 🛘	0 2
17. Source of water (attach analysis, if rec	quired):	1893 18	81			Gravity 🛛	1 08
NA	` ′		XI.	6. Bentonite seal	a. Bent	tomite granules 🔲	33
NA		B884 B	8	b □1/4 in.	⊠3/8 in. □ 1/2 in. I	3entonite chips 🏻	32
6.14	101 O.F. ft	₩ B	₩ /	0. —2,		Other	
E. Bentonite seal, top ft. M	2r or _ 7.9 m	. 683 8	X /	0			8000-00
6. 3.1	ISL or17ft.	\	X /	Fine sand mat	erial: Manufacturer, pro	duct name & me	
F. Fine sand, top ft. M	2F 0L = -17 = -111		4 //	a	R.W Sidley 30/100		222
6. 3.4	rei 19 fts		3/	b. Volume ad	ded 0.25	∘ft ³	
G. Filter pack, top	ISL or _ 18 ft.\		Y	9 Eilteanack ma	regial. Manufacturer, pro	oduct name & me	esh size
C. 3.4	ISL or 20 ft.		/	6. Titter pack me	R.W Sidley # 5		95000
H. Screen joint, top	SL or _ Zn.			b. Volume ad		ft ³	-
			1	9. Well casing:	Flush threaded PVC	schedule 40 Z	23
I. Well bottom ft. M	ISL or _30ft.	\ ド屋		J. Well casing	Flush threaded PVC	schedule 80	24
	-a- 30 A-	イ富			1 1001	Other [
J. Filter pack, bottom ft. M	ISL or _30 ft.		_	A 5	al: PVC		
				10. Screen materi		Factory cut	
K. Borehole, bottom	ISL or _50 II.			a. Screen typ		ontinuous slot	
			2		C	Other E	11 14 1
L. Borehole, diameter $-2 - in$.	i				Monoflex	- Office E	32522
				b. Manufactu	reriviolioliex		01_ in.
M. O.D. well casing 1.315 in.			1	c. Slot size:			10 ft.
			1	d. Slotted let		None D	
N. I.D. well casing 1.029 in.				 Backfill mate 	rial (below filter pack):		
						Other [22
I hereby certify that the information on the	is form is true and cor	rect to the be	st of my kn	owledge.			
Signature	Firm	1					
Stephenson		GZA Ge	oEnvironn	nental, Inc.			

State of Wisconsin	Vatershed/Wastewater	□ Waste N	fanagement [MONITORING WELL Form 4400-113A	CONSTRUCTION Rev. 7-98
Department of Natural Resources Route to: V	Remediation/Redevelopm	nent X Other			
Facility/Project Name	Local Grid Location of			Well Name	•
Leather Rich Inc	Q=	_ft. S	n. 🛮 📆	1	
Facility License, Permit or Monitoring No.	Local Grid Origin	(estimated: 🗆)	or Well Location		NA
NA	Lat. 43 ° 4 ' 30.	. 97 "Long. <u>88</u>	<u>° 28 ′ 26.40 </u> °a	r I NA	<u> </u>
Facility ID	St. Plane			Date Well Installed 4 /	28 / 2022
268414850	Section Location of Wa			111 111	
Type of Well	NE 1/4 of NW 1/4		7N, R. 17 🖺 V	Tony Kapugi	ne (mst, last) and I um
Well Code 61/JJ	Location of Well Relati	ve to Waste/Sour		Tony Kapugi	
Distance from Waste/ Enf. Stds.	u 🗆 Upgradient	s 🔲 Sidegrad	lient	On-Site Environ	mental Services, I
Source ~250 ft. Apply	d 🛛 Downgradient	n 🗆 Not Kno	wn —		☐ Yes ☒ No
	ft. MSL —		1. Cap and lock?		☐ Yes ☑ No
		-FOR	2. Protective cove		_8 _ in.
B. Well casing, top elevation	ft, MSL		a. Inside diame	ter:	NA- Flush ft,
	ft. MSL		b. Length:		
	dayler, 2		c. Material:		Steel 🔯 04
D. Surface seal, bottom ft. M.	SL or ft.		922	el flush mount cover	Other 🗆 🏬
12. USCS classification of soil near scree		241 Mark	d. Additional p		☐ Yes ☐ No
GP□GM□GC□GW□	SW 🛛 SP 🗆 📗 🤼	/ El B/	If yes, descr	ibe:	
SM SC ML MH	CL CH CH C	# 14	3. Surface scal:		Bentonite 30
Bedrock 🗆		1881 1889	5. Surface scar.		Concrete 🖾 01
13. Sieve analysis performed?	Yes 🛛 No	M M	/		Other 🗆 🧫
	otary 🗆 5 0	100 100	4. Material between	en well casing and protect	ive pipe:
Hollow Stem A		188 BS			Bentonite 🛛 30
Tionow dam 75	Other 🗆 🛄	₩ ₩	,		Other 🗆 🏬
	2000000	M 184-	5. Annular space	seal: a. Granular/Chipp	ped Bentonite 🛛 33
15. Drilling fluid used: Water □ 0 2	Air □ 01		Lbs/ga	l mud weight Bentonit	te-sand slurry 🔲 35
Drilling Mud 0 3	None 🛛 99	*** ***	a Lhs/ga	l mud weight Ben	tonite slurry \square
			d % Bent	onite Bentonite-	cement grout [50
16. Drilling additives used?	Yes 🛛 No	201	3	Ft 3 volume added for any	of the above
		201	f. How install	ed:	Tremie 🔲 01
Describe NA		×	I, How more	Tre	mie pumped 🛭 02
17. Source of water (attach analysis, if rec	quired):	200			Gravity 🛛 08
NA		 	6. Bentonite seal		mite granules 🔲 33
		100 100 100	h. □1/4 in.	⊠ 3/8 in. □ 1/2 in. Be	entonite chips 🛛 32
E. Bentonite seal, top ft. M	Stor 0.5 ft.	M M	/ c		Other 🗆 🎆
E. Bentonite seal, top 11.	200 - 222	₩ ₩			hard name for much size
F F ft M	SL or17ft.	\ 幽 幽 /	7. Fine sand mat	erial: Manufacturer, prod	
F. Fine sand, top	SE 01		/ a	R.W Sidley 30/100	
	ISL or _ 18 ft.	人图 图 /	h. Volume ad		ft ³
G. Filter pack, top	DE 01 _ 10 10		8. Filter pack ma	regial. Manufacturer, proc	luct name & mesh size
	ISL or 20 ft.		/	R.W Sidley # 5	
H. Screen joint, top	DL OI		b. Volume ad		ft ³
C. 34	ISL or 30ft.	1.	9. Well casing:	Flush threaded PVC	schedule 40 🛭 23
I. Well bottom	IDT OI =		24	Flush threaded PVC	schedule 80 🔲 24
e. 3.1	ISL or 30 ft.	イ国人			Other 🗆 🕮
J. Filter pack, bottom ft. M	12T ot II.		10. Screen materi	al: PVC	88
	30 0		a. Screen typ	***	Factory cut X 11
K. Borehole, bottom	12 of		a. Screentyp		ntinuous slot 🔲 01
					Other 🗆 🔝
L. Borehole, diameter $-2 - = in$		/	1 Mf.	mer Monoflex	
			b. Manufacture.	rer	001_ in.
M. O.D. well casing 1.315 in.				oth.	10_ft.
4.000					None 🛛 14
N. I.D. well casing 1.029 in	•		11. Backfull mate	rial (below filter pack):	Other 🗆 🎇
			Name of the State		- July 1
I hereby certify that the information on the	is form is true and corre	ect to the best of n	ly knowledge.		
Signature (Firm				
Stephenson	1	GZA GeoEnvi	ronmental, Inc.		

State of Wisconsin	Vatershed/Wastewater	Waste Mana	igement [MONITORING WELL Form 4400-113A	CONSTRUCT	NOI.
Department of Natural Resources Route to: V	Remediation/Redevelopment	tX Other				
Facility/Project Name				Well Name		
Leather Rich Inc	ft	 	ft. E. W.	Wis, Unique Well No.		10
Facility License, Permit or Monitoring No.	Local Grid Origin [(es	timated: 🗆) or	Well Location		NA_	u.
NA	Lat. 43 ° 4 30.97	'_"Long. <u>88 ° 2</u>	8 <u>26.26</u> or	NA	<u>INA</u>	-
Facility ID		t. N,		Date Well Installed 04 /	28 / 2022	<u>)</u>
268414850	Section Location of Waste			III III		
Type of Well	NE 1/4 of NW 1/4 of S		_N, R17 □ W	Tony Kapugi	ie (ilist, iast) and	Little
Well Code 61/JJ	Location of Well Relative	to Waste/Source	Gov. Lot Number	Torry Kapugi		
Distance from Waste/ Enf. Stds.	l u □ Upgradient s	☐ Sidegradient	1	On-Site Environ	mental Servic	es, In
Source ~250 ft. Apply	d 🛭 Downgradient n	□ Not Known			☐ Yes 🛛	NT-
	ft. MSL		l. Cap and lock?		☐ Yes 🔼 1	NO
			2. Protective cover		8	•
B. Well casing, top elevation	ft. MSL		a. Inside diamete	भ:	NA- Flush	
	ft. MSL	JI IL	b. Length:			
	**************************************	3	c. Material:		01007 22	0.4
D. Surface seal, bottom ft. Ma	SL or ft.			el flush mount cover		
12. USCS classification of soil near scree		A L	d. Additional pro		☐ Yes ☐	NO
GP □ GM □ GC □ GW □ :	SW 🛛 SP 🗆 📗 🔪	EL 13/ /	If yes, describ	oe:		2.0
SM SC ML MH	CL CH CH C	褶 へ /	3. Surface scal:		Bentonite 🗆	30
Bedrock 🗆	A.		5. Surface scar.		Concrete 🖾	01
13. Sieve analysis performed?	Yes 🛛 No				Other 🗆	44,44
	otary 🗆 5 0	M M	4. Material betwee	n well casing and protect	ive pipe:	
14. Drilling method used: Ro		100			Bentonite 🛛	30
	Other 🗆 🛄				Other 🗆	oper seek
	ALLOI — SOMME		5. Annular space s	eal: a. Granular/Chipp	ed Bentonite 🛛	33
15. Drilling fluid used: Water □ 0 2	Air 🗆 01		1. [hs/gal	mud weight Bentonit	e-sand slurry 🗆	35
Drilling Mud 0 3	None Ø 99	88 89	a Lhs/gal	mud weight Ben	tonite slurry	3 1
	11000		d % Bento	nite Bentonite-	cement grout 🗆	50
16. Drilling additives used?	Yes 🛛 No		- 3 F	volume added for any	of the above	
10.2			f. How installe		Tremie 🗆	0 1
Describe NA			I. How histaire	Tre	mie pumped 🛘	02
17. Source of water (attach analysis, if rec	uired):	88 88			Gravity 🛛	0.8
NA	` ′		6. Bentonite seal:	a. Bento	nite granules 🔲	33
NA		M M	b □1/4 in. [X 3/8 in. □ 1/2 in. Be	entonite chips 🛛	32
6.14	191 O.F. ft		0. —1,		Other	34
E. Bentonite seal, top ft. M	2F 9L - 773 11.		0		a 1	800000
6. 3.1	(SL or17ft.			rial: Manufacturer, prod	act name & mesi	
F. Fine sand, top ft. M	2F BL = -17 = -111		a	R.W Sidley 30/100		222
6. 3.4	rei 19 ft		h Volume add	ed 0.25	_{ft} 3	
G. Filter pack, top	ISL or _ <u>18</u> ft.		9 Eiltes pack mate	erial. Manufacturer, prod	luct name & mes	sh size
C. 3.4	ISL or 20 ft.	温間ノ	6. Tittel pack may	R.W Sidley # 5		1800000
H. Screen joint, top	SL or _ 20 11.		b. Volume add		ft ³	-
			9. Well casing:	Flush threaded PVC	schedule 40 🛛	23
I. Well bottom ft. M	ISL or _30 ft.		J. Well cashing	Flush threaded PVC	schedule 80 🗆	24
	30	イ国ナ		1 1001 1111	Other 🗆	
J. Filter pack, bottom ft. M	ISL or _30 ft.		AA Ea murania	1: PVC		88
			10. Screen materia	***	Factory cut X	
K. Borehole, bottom	ISL or _SUn.		a. Screen type		ntinuous slot	
	_			Col	Other \square	100
L. Borehole, diameter $-2 - in$.	i			Monoflex	Onter	325020
		/	b. Manufacture	IVIOLIDIIEX		11_ in.
M. O.D. well casing 1.315 in.		1	c. Slot size:	.at		10 ft.
		,	d. Slotted leng		None 🛛	
N. I.D. well casing 1.029 in.	•		11. Backfill materi	ial (below filter pack):		
					Other 🗆	202
I hereby certify that the information on the	is form is true and correct t	o the best of my ki	nowledge.			
Signature	Firm					
Stephenson	l G	ZA GeoEnviron	mental, Inc.			

State of Wisconsin	Vatershed/Wastewater	Waste Man	agement [MONITORING WELL Form 4400-113A	L CONSTRUCTION Rev. 7-98
R	Remediation/Redevelopment	Other			
Facility/Project Name		¹ □ N. □ S	ft. 🖁 E.	Well Name IJ-8	8
Leather Rich Inc	Local Grid Origin (est	S	Well Location X	Wis. Unique Well No.	DNR Well ID No.
Facility License, Permit or Monitoring No.	Lat, 43° 4 32.39	" 88°2	8 28.84	. NA	NA
NA				Date Well Installed	
Facility ID 268414850		i. N,	ft. E. S/C/N	m m	
	Section Location of Waste/		N, R. 17 □ W	Well Installed By: Na	me (first, last) and Firm
Type of Well	NE 1/4 of NW 1/4 of S	ec <u>. 15</u> ,T. <u>7</u>		Tony Kapugi	
Well Code61 / JJ Distance from Waste/ Enf. Stds.	Location of Well Relative t	o Waste/Source ☐ Sidegradient	Gov. Lot Number	On Site Enviror	nmental Services, l
Distuice from Waster	u ☐ Upgradient s d 🛛 Downgradient n		II	OII-Site Environ	
	ft. MSL		1. Cap and lock?		☐ Yes ☒ No
			2. Protective cover	pipe:	ο.
B. Well casing, top elevation	ft. MSL		a. Inside diamet	er:	_8_ in.
G	ft. MSL		b. Length:		NA- Flush ft.
	THE PARTY OF THE P		c. Material:		Steel 🔯 04
D. Surface seal, bottom ft. Ma	SL or ft.			el flush mount cover	Other 🗆 🥌
12. USCS classification of soil near scree		III M	d. Additional p		☐ Yes ☐ No
GP□GM□GC□GWX	SW □ SP □		If yes, descri	be:	
SM □ SC □ ML□ MH□	CL CH CH C		3. Surface scal:		Bentonite 30
Bedrock □			J. 0011000 30011		Concrete 🖾 01
13. Sieve analysis performed?	Yes 🛛 No				Other 🗆 🧱
14. Drilling method used:	otary 🗆 5 0	8 8	4. Material between	en well casing and protec	Etive pipe: Bentonite 🖾 30
Hollow Stem A		₩ ₩			100004
	Other 🗆 📖	× ×	-	Q 1 /QL	
	_		5. Annular space s	seal: a. Granular/Chip	ite-sand slurry 35
15. Drilling fluid used: Water 0 2	Air 0 1		bLbs/gal	mud weight Bentoni	nte-sand slurry D 31
Drilling Mud □ 0 3	None 🛛 99		cLbs/gal	mud weight Ber	HOURS GLOIN
10 10	Vas. M.No.		d % Bent	onite Bentonite Note to the second se	of the above
16. Drilling additives used?	Yes 🛛 No	⊠ ₩	C		Tremie 🗆 01
5 3 NA		₩ ₩	f. How installe	:d: Tra	emie pumped 🗆 02
DescribeNA 17. Source of water (attach analysis, if rec	mind).	₩ ₩			Gravity 🛛 08
•	juncu).	 	6. Bentonite seal:	a. Bente	onite granules 🔲 33
NA		₩ ₩	1. Dentonite sea.	⊠3/8 in. □ 1/2 in. B	
A 14	101 as 0.5 ft		G. —17 (1.1.)	A-1	Other 🗆 🌉
E. Bentonite seal, top ft. M	2F 01 - 737 - 711		·		dura manh size
E E' t to-	(SL or17ft.		7. Fine sand mate	rial: Manufacturer, prod	
F. Fine sand, top	55 th	圏 圏/ /	a,	R.W Sidley 30/100	
C. Filter and ton ft. M	ISL or _ 18 ft.		b. Volume add		ft ³
THE PROPERTY OF THE PROPERTY O	_		8. Filter pack may	regial. Manufacturer, pro	duct name & mesh siz
H. Screen joint, top	ISL or 20ft.		8	R.W Sidley # 5	<u>. 1919</u>
			b. Volume add	ded 3.5	ft ³
I. Well bottom ft. M	ISL or _30 ft.		9. Well casing:	Flush threaded PVC	schedule 40 🛛 21
				Flush threaded PVC	schedule 80 🔲 24
J. Filter pack, bottom ft. M	ISL or _30 ft.				Other 🗆 🚃
			10. Screen materia	al: PVC	
K. Borehole, bottom	ISL or _30 ft.		a. Screen type		Factory cut 11
	_			Co	ontinuous slot 0
L. Borehole, diameter 8.25 in.			-	er Monoflex	Other 🗆 🦠
			b. Manufactur	eriviorionex	001_ ir
M. O.D. well casing 2.35 in.		1	c. Slot size:	~ a1	10_f
			d. Slotted len		None 🛛 14
N. I.D. well casing 2.05 in.	• //		11. Backfill mater	ial (below filter pack):	Other 🗆 🎇
			V		Outer in Wa
I hereby certify that the information on the	is form is true and correct to	the best of my k	nowleage.		
Signature Stephenson	Firm	ZA GeoEnviron			
- Health on	ı G	TH GEOFINION	m e ndi, iiic.		

State of Wisconsin	Vatershed/Wastewater	Waste Mana	gement	MONITORING WELL Form 4400-113A	L CONSTRUCTION Rev. 7-98	Ŋ
R	Remediation/Redevelopment[X					6
Facility/Project Name	Local Grid Location of Well		ft. 🖁 E.	Well Name J-9	9	
Leather Rich Inc	Local Grid Origin (estim]S	Well Location XI	Wis, Unique Well No.	DNR Well ID No.	ë
Facility License, Permit or Monitoring No.	Lat, 43° 4 32. 15	14 88 ° 28	3 29 23 "or	.l NA	NA	
NA					2022	5
Facility ID 268414850		٨,	ft. E. S/C/N			
	Section Location of Waste/So		N, R. 17 □ W	Well Installed By: Na	me (first, last) and Firm	n
Type of Well	NE 1/4 of NW 1/4 of Sec	<u>. 15</u> , T. <u>7</u>		Tony Kapugi		
Well Code61 / JJ Distance from Waste/ Enf. Stds.	Location of Well Relative to u Upgradient s	Waste/Source ☐ Sidegradient	Gov. Lot Number	On-Site Enviror	nmental Services,	In
Distance from Waste/ Enf. Stds. Source ~250 ft. Apply	d XI Downgradient n			On-Oile Environ		- 11 IV
	ft. MSL		. Cap and lock?		☐ Yes ☒ No	
			2. Protective cover	pipe:	_8 _ in.	
B. Well casing, top elevation	ft, MSL		a. Inside diamete	er:	NA- Flush ft,	
	ft. MSL	 	b. Length:		Steel X 04	ı
	Appropriate the second		c. Material:	el flush mount cover	Other 🗆	4
D. Surface seal, bottom ft. M.		J. A.			☐ Yes ☐ No	£
12. USCS classification of soil near scree		N/	d. Additional pr			
	SW C SP C	13//	If yes, descri	De;	Bentonite 30)
SMI LL SE LL MIZE	CL CH CH C		3. Surface scal:		Concrete 🖾 01	
Bedrock	Ves MINE				Other 🗆	2000
	Yes No	1 📖 🗀	/ Material between	en well casing and protec	Anna Maria	i.
1-11-11-1	otary 🗆 5 0	8 888	4. Walbrian back of		Bentonite 🛛 30)
Hollow Stem A	uger XI 4 1 Other 🗆	8 ₩			Other 🗆 🏬	1
	Julier C aman	8 884_	5. Annular space s	eal: a. Granular/Chip	ped Bentonite 🛭 33	3
15. Drilling fluid used: Water □ 0 2	Air 🗆 01		Lbs/gal	mud weight Bentoni	ite-sand slurry 🔲 - 3.5	
Drilling Mud 0 3	None 🛛 99	9 88	a Lhs/gal	mud weight Ber	ntonite slurry 🗀 🗀 1	
_		9 88	d % Bento	onite Bentonite	-cement grout L1 50	0
16. Drilling additives used? □	Yes ⊠ No	8 88	e6F	volume added for any		
		8 88	f. How installe	:d:	Tremie 0 1	
DescribeNA		3 83		Tre	emie pumped 🔲 02 Gravity 🛛 08	
17. Source of water (attach analysis, if rec	quired):	8 ₩		a Rente	Gravity XI 08 2 mite granules □ 33	_
NA NA		8 100	6. Bentonite seal:	a. Bend		
<u> </u>			ъ. 🗆 1/4 m.	Д 3/6 III. Ц 1/2 III. Ц	Other	
E. Bentonite seal, top ft. M	SL or _ 0.5 11.		C		8000	
C. 3.1	17 AL		7. Fine sand mate	rial: Manufacturer, proc	iuct name & mesh size	e.
F. Fine sand, top ft. M	(SL or17 ft.		a	R.W Sidley 30/100		2
er en er	SL or _ 18 ft.		 b. Volume add 		ft ³	
G. Filter pack, top	32 01 _ 10 1		8. Filter pack mat	erial Manufacturer, pro	duct name & mesh siz	ze
H. Screen joint, top	ISL or 20 ft.		8	R.W Sidley # 5		2
H. Screen joint, top			b. Volume add	ded 3.5	ft ³	2
I. Well bottom ft. M	ISL or _30 ft.		9. Well casing:	Flush threaded PVC	schedule 40 🛛 2:	
		看人		Flush threaded PVC	schedule 80 🔲 2	
J. Filter pack, bottom ft. M	ISL or _30 ft.				Other 🗆 🥋	800
	E		Screen materia		E	
K. Borehole, bottom	ISL or _30ft.		a. Screen type		Factory cut X 1: ontinuous slot 0	
				CC	Other 🗆 🥘	- 64
L. Borehole, diameter 8.25 in.				er Monoflex	Office in Section 1	220
		/	b. Manufacturec. Slot size:	er	001_ iu	in.
M. O.D. well casing 2.35 in.		/	 c. Slot size: d. Slotted length 	eth:	<u>10_</u> f	
2.05		,		ial (below filter pack):	None 🛛 1	
N. I.D. well casing 2.05 in.	ŧo.		11. Backini mater	THE COUNTY THE PROPERTY.	Other 🛘 🦉	
I hereby certify that the information on th	is form is true and correct to I	he best of my kn	owledge.			_
	Firm		Personal Section Secti			
Signature Slephenson		A GeoEnvironr	mental, Inc.			_

State of Wisconsin Department of Natural Resources Route to: V	Vatershed/Wastewater	Waste Man	agement [MONITORING WELL Form 4400-113A	CONSTRUCTION Rev. 7-98
	Remediation/Redevelopme	nt[X] Other L =			
Facility/Project Name		ft. S	ft. 🖁 E.	Well Name IJ-10)
Leather Rich Inc		It. OS	Wall Location XI	Wis, Unique Well No.	DNR Well ID No.
Facility License, Permit or Monitoring No.	Local Grid Origin (c	stimated: LI) or	Well Location AL		NA
NA	Lat. 43° 4 31.9	96 Long. 00 2		Date Well Installed	
Facility ID		ft. N,	ft. E. S/C/N	Date Well Installed	$\frac{28}{d} \frac{1}{2} \frac{022}{v} \frac{2}{v} \frac{1}{v}$
<u>268414850</u>	Section Location of Wast		XE		ne (first, last) and Firm
Type of Well	NE 1/4 of NW 1/4 of	Sec. 15 ,T. 7	_N, R. <u>17</u> 🗒 W	Tony Kapugi	# 11 Pl
Well Code61 / JJ	Location of Well Relative	e to Waste/Source	Gov. Lot Number		
Distance from Waste/ Enf. Stds.		s Sidegradien		On-Site Environr	mental Services,
Source ~250 ft. Apply	d 🛭 Downgradient	n 🖂 Not Kilowii	1. Cap and lock?		☐ Yes ☒ No
	ft. MSL ——		2. Protective cover	pipe:	0
B. Well casing, top elevation	ft, MSL		a. Inside diamet		_8_in.
G			b. Length:		NA- Flush ft.
	ft. MSL		c. Material:		Steel 🔯 04
D. Surface seal, bottom ft. M.	SL or ft.		Ste	el flush mount cover	Other 🗆 🏬
12. USCS classification of soil near scree		All Marca	d. Additional pr		☐ Yes ☐ No
	sw □ sp □ \	[] [] [] [] [] [] [] [] [] []	If yes, descri	be;	
SM SC ML MH	CL CH CH C	/ 图 图 / ,	3. Surface scal:		Bentonite 30
Bedrock			J. Sullace scal.		Concrete 🛛 01
13. Sieve analysis performed?	Yes 🛛 No				Other 🗆 🧾
14. Drilling method used:	otary 🗆 5 0		4. Material between	n well casing and protecti	ve pipe: Bentonite 🛛 30
Hollow Stem A					100000
	Other 🗆 🚐			g 1 (gt)	
			5. Annular space s	eal: a. Granular/Chipp	ed Benionie 2 35
15. Drilling fluid used: Water □ 0 2	Air 01		bLbs/gal	mud weight Bentonite	e-sand slurry D 31
Drilling Mud □ 0 3	None 🛛 99		cLbs/gal	mud weight Bentonite-c	Omio diang
10 10	Yes 🛛 No		d % Bento	volume added for any	of the above
16. Drilling additives used?	108 140		C		Tremie □ 01
Describe NA			f. How installe	:d: Trer	mie pumped 🗆 02
DescribeNA	mired).	 			Gravity 🛛 0.8
•	lunea).		6. Bentonite seal:	a. Bentor	nite granules 🔲 33
NA		M M	b □1/4 in.	⊠3/8 in. □1/2 in. Be	
	191 as 0.5 ft		G. —1,		Other 🗆 💹
E. Bentonite seal, top ft. M	20 01 - 20 2 - 20 1				fr mach size
F. Fine sand, top ft. M	SL or17 ft.		7. Fine sand mate	rial: Manufacturer, produ	
r. The said, up	_		a,	R.W Sidley 30/100	
G. Filter pack, top ft, M	ISL or _ <u>18</u> ft.		b. Volume add		_t 3
			, 8. Filter pack mat	erial: Manufacturer, prod	uct name & mesh \$12
H. Screen joint, top ft. M	ISL or 20 1 1		a	R.W Sidley # 5	.3
			b. Volume ade	led 3.5 flush threaded PVC s	ht3 schedule 40 XI 2:
I. Well bottom ft. M	ISL or _30 ft.		9. Well casing:	Flush threaded PVC s	schedule 80 🗆 2
		ノ電イ		Flush threaded FVC s	Other
J. Filter pack, bottom ft. M	ISL or _ 30 ft. —			. DVC	00000
			10. Screen materia		Factory cut X 1
K. Borehole, bottom	ISL or _SUII.		a. Screen type		ntinuous slot 0
				Con	Other 🗆 🥘
L. Borehole, diameter 8.25 in.	i		1 Manufactur	Monoflex	0.1.02 — 50.
0.05		/	b. Manufacturc. Slot size:		001_ i
M. O.D. well casing 2.35 in.	,	/	d. Slotted len	eth:	<u>10</u> _f
2.05				ial (below filter pack):	None 🛛 1
N. I.D. well casing 2.05 in	ŧo.		11. Dackini matei	em (nash., sveni hanse).	Other 🛘 🦉
at the second se	is form is true and correct	to the best of my k	nowledge.		
I hereby certify that the information on the	Firm	to the post of hij k			
Signature Slephenson		GZA GeoEnviron	mental, Inc.		1

State of Wisconsin Department of Natural Resources Route to: V	Vatershed/Wastewater	Waste Mana	gement	MONITORING WELI Form 4400-113A	CONSTRUCTION Rev. 7-98	N
R	Remediation/Redevelopment[]	Other				* 1
Facility/Project Name		⊒ N. ∃ S	ft. 🖁 E.	Well Name IJ-1	1	
Leather Rich Inc	Local Grid Origin (estim	15	Well Location X	Wis, Unique Well No.	DNR Well ID No.	
Facility License, Permit or Monitoring No.	Local Grid Origin (estin	lated: [] Of	Well Location 22		NA	
NA	Lat. 43° 4 ' 31.73	Long. OO Zo		Data Well Installed		7
Facility ID		N,	ft. E. S/C/N	Date Well Installed	$\frac{28}{d} \frac{12022}{y y y}$	
268414850	Section Location of Waste/So	ource	XI F.		ne (first, last) and Firr	m
Type of Well	NE 1/4 of NW 1/4 of Sec	<u>. 15</u> ,T, <u>7</u>	N, R. 17 🖺 W	Tony Kapugi		
Well Code61 / <u>JJ</u>	Location of Well Relative to	Waste/Source	Gov. Lot Number			
Distance from Waste/ Enf. Stds.		☐ Sidegradient		On-Site Environ	mental Services,	, In
Source ~250 ft. Apply	d XI Downgradient n	1 Not Known	. Cap and lock?		☐ Yes 🏻 No	_
	ft. MSL		2. Protective cover	pipe:		
B. Well casing, top elevation	ft, MSL		a. Inside diamete		_8_ in.	
G			b. Length:		NA- Flush ft,	
C. Land surface elevation =	ft. MSL	20000000	c. Material:		Steel 🔯 04	4
D. Surface seal, bottom ft. M.	SL or ft.	L.X		el flush mount cover	Other 🗆 🧫	900
12. USCS classification of soil near scree		A STATE OF THE PARTY OF THE PAR	d. Additional pr	otection?	☐ Yes ☐ No	
	SW SP		If yes, describ			
GP GM GC GW XX S	CL CH CH		•		Bentonite D 30	0
Bedrock	W		Surface scal:		Concrete 🖾 01	1
_	Yes ⊠ No				Other 🗆 🧾	8
	1 10		4. Material between	n well casing and protect	ive pipe:	
1-11-11-1	otary 🗆 5 0	8 8 8			Bentonite 🛛 30	0
Hollow Stem A	uger 12, 41 Other 🗆	8 88			Other 🗆 🌉	
	Juner - See		5. Annular space s	eal: a. Granular/Chipp	oed Bentonite 🛛 33	3
As To My Cold and Water D 02	Air 🗆 01		J. Milliulai space o	mud weight Bentonit	te-sand slurry 3 5	5
15. Drilling fluid used: Water □ 0 2 Drilling Mud □ 0 3	None Ø 99	8 88	bLos/gal	mud weight Ben	tonite slurry D 3	1
Dimme tree [0]	110/10 pt	\$ 188	d % Bento	nite Bentonite-	cement grout 1 5	0
16. Drilling additives used?	Yes ⊠ No	8 88	a. 6 F	volume added for any	of the above	
TV. Daming would be to the	18	a 🟻	0.		Tremie 🔲 0	1
DescribeNA		8 X8	f. How installe	Tre	mie pumped 🛭 0 :	2
17. Source of water (attach analysis, if rec	uired):	8 1881			Gravity 🛛 0	8
NA		8 88	6. Bentonite seal:	a. Bento	mite granules 🔲 - 3 :	3
		9 KM	h. □1/4 in.	X3/8 in. □ 1/2 in. Be	entonite chips 🛛 3	
E. Bentonite seal, top ft. M	Stor 0.5 ft.	7 XX /	C		Other 🗆 🎆	
E. Bentonite seal, top is	320 33			rial: Manufacturer, prod	nat name & mesh siz	7e
F. Fine sand, top ft. M	SL or17ft.	M M / .	7. Fine sand mate			
r. Thic said, top	\ \ \		a,	R.W Sidley 30/100		22
C. Filter mark ton ft. M	ISL or _ 18 ft.		b. Volume add		ft ³	20
			8. Filter pack mat	erial. Manufacturer, pro-	Juct name & mesh si	ize
H. Screen joint, top	ISL or 20 n.		8	R.W Sidley # 5		1
			b. Volume add	led3.5	ft ³	
I. Well bottomft. M	ISL or 30ft.		9. Well casing:	Flush threaded PVC	schedule 40 XI 2	23
1. WER BORDIN				Flush threaded PVC	schedule 80 📙 2	24
J. Filter pack, bottom ft. M	ISL or _30 ft.				000	
	E	` (Screen materia	1:PVC		25
K. Borehole, bottom	ISL or _30ft.		 a. Screen type 			1
K. Boronoro, bottom				Со		0 1
L. Borehole, diameter 8.25 in.					Other 🗆 🦉	23
L. Bolchole, diameter ==== m		1	 b. Manufacture 	Monoflex		<u>.</u>
M. O.D. well casing 2.35 in.		/	c. Slot size:		0 01 _ i	
III. O.D. WOIL COSTING		1	d. Slotted leng		10_	
N. I.D. well casing 2.05 in.			11. Backfill materi	ial (below filter pack):	None 🛛 1	
			V.=======		Other 🛚 🚆	
I hereby certify that the information on the	is form is true and correct to	the best of my kn	iowledge.			_
Signature	Firm					
Stephenson	l GZ/	A GeoEnvironr	mental, Inc.			_



APPENDIX D

JRW BIOREMEDIATION PRODUCT INFORMATION SHEETS



PROVEN ELECTRON DONOR EFFICIENCY AND RAPID DECHLORINATION KINETICS OF SODIUM LACTATE ENHANCED BY ACCELERITE® NUTRIENT BLEND

Wilclear Plus® lactate with Accelerite® is a proprietary blend of neutral pH fatty acids combined with Accelerite® nutrient blend for use in enhanced anaerobic reductive dechlorination. Wilclear Plus® contains 61% fermentable material providing a high fermentable fraction with minimum amount of water.

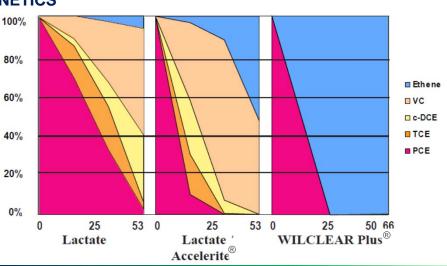
BENEFITS OF WILCLEAR PLUS®

Lactate provides carbon for rapid establishment of anaerobic conditions.

- Volatile fatty acids and fermentables provide a range of material to help promote the growth of an assortment of dechlorinating microbial populations.
- Acelerite® provides growth factors to increase efficiency and kinetics.

RAPID DECHLORINATION KINETICS

Microcosm studies comparing Wilclear Plus® to lactate and lactate plus Accelerite® showed that Wilclear Plus® demonstrated dechlorination kinetics faster than the other substrates. At 25 days, the Wilclear Plus® microcosm converted more than 99% of PCE to ethene.



TYPICAL PROPERTIES

Sodium lactate: 33-40%
Sodium propionate: 0-8%
Sodium acetate: 0-8%
Sodium butyrate: 0-8%

Total Sodium Carboxylates: 40-45%

• Carbohydrates/metabolites: 15-20%

Water: 30-38%

• pH: 7 ±1.0

• Viscosity: < 500cP at 20°C

• Specific gravity: 1.2 - 1.3

Soluble in water

Color: light to dark brown





LACTOIL® SOY MICROEMULSION

CONCENTRATED FORMULATION PROVIDES SAVINGS THROUGH INCREASED DISTRIBUTION, EXTENDED LONGEVITY, HIGH EFFICIENCY

LACTOIL[®] is a thermodynamically stable microemulsion designed to provide the subsurface distribution and remediation performance characteristics of a highly soluble substrate with the longevity of a vegetable oil.



INCREASED SUBSURFACE DISTRIBUTION:

- Average particle size < 1 micron
- High emulsion stability allows for greater subsurface transport

EXTENDED LONGEVITY:

- 98% fermentable emulsion
- Emulsion particles contain both readily soluble and slowly soluble material

INCREASED DEGRADATION RATES:

Provides sustained lactate for accelerated metabolism

HIGHER EFFICIENCY:

 Increased contaminant degradation per unit of fermentable product injected as compared to standard EVO

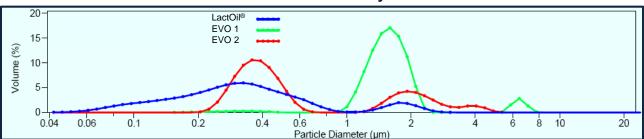
CONTAMINANTS TREATED:

 Chlorinated solvents, nitrates, perchlorate, RDX, metals, trichloropropane, mine impacted water

TREATMENT APPLICATIONS:

Permanent wells, direct push, excavation backfill, bedrock

Particle Size Analysis



Analysis conducted using 1:10 dilution on a Beckman Coulter Light Scattering Particle Size Analyzer





APPENDIX E

POST-INJECTION GROUNDWATER LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS





June 24, 2022

Sheryl Stephenson GZA GeoEnvironmental 17975 West Sarah Lane Suite 100 Brookfield, WI 53045

RE: Project: 20.0156045.01 Pace Project No.: 40246766

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

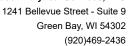
Christopher Hyska christopher.hyska@pacelabs.com

Chushpher Hyska

(920)469-2436 Project Manager

Enclosures







CERTIFICATIONS

Project: 20.0156045.01 Pace Project No.: 40246766

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

(920)469-2436



SAMPLE SUMMARY

Project: 20.0156045.01 Pace Project No.: 40246766

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40246766001	MW-6	Water	06/16/22 09:19	06/17/22 07:50
40246766002	MW-7	Water	06/16/22 10:00	06/17/22 07:50
40246766003	MW-1	Water	06/16/22 10:40	06/17/22 07:50
40246766004	MW-13	Water	06/16/22 11:49	06/17/22 07:50
40246766005	MW-17	Water	06/16/22 12:40	06/17/22 07:50
40246766006	TRIP	Water	06/16/22 00:00	06/17/22 07:50



SAMPLE ANALYTE COUNT

Project: 20.0156045.01 Pace Project No.: 40246766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40246766001	MW-6	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	8	PASI-G
		EPA 300.0	НМВ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766002	MW-7	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	НМВ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766003	MW-1	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766004	MW-13	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766005	MW-17	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766006	TRIP	EPA 8260	JAV	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 20.0156045.01 Pace Project No.: 40246766

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
40246766001	MW-6					
EPA 8015B Modified	Ethane	1.6J	ug/L	5.6	06/21/22 11:35	
EPA 8015B Modified	Ethene	3.1J	ug/L	5.0	06/21/22 11:35	
EPA 8015B Modified	Methane	2.2J	ug/L	2.8	06/21/22 11:35	
EPA 6010D	Iron, Dissolved	1760	ug/L	100	06/20/22 17:29	
EPA 8260	Tetrachloroethene	41.4	ug/L	1.0	06/22/22 16:01	
EPA 8260	Trichloroethene	2.3	ug/L	1.0	06/22/22 16:01	
EPA 8260	cis-1,2-Dichloroethene	5.5	ug/L	1.0	06/22/22 16:01	
EPA 300.0	Sulfate	17.0	mg/L	2.0	06/22/22 01:24	
SM 5310C	Total Organic Carbon	236	mg/L	15.0	06/23/22 12:18	
40246766002	MW-7					
EPA 6010D	Iron, Dissolved	195	ug/L	100	06/20/22 17:32	
EPA 8260	Tetrachloroethene	48.8	ug/L	1.0	06/21/22 14:37	
EPA 8260	Trichloroethene	1.5	ug/L	1.0	06/21/22 14:37	
EPA 8260	cis-1,2-Dichloroethene	1.4	ug/L	1.0	06/21/22 14:37	
EPA 300.0	Sulfate	22.3	mg/L	2.0	06/22/22 01:39	
SM 5310C	Total Organic Carbon	33.5	mg/L	3.0	06/23/22 12:56	
0246766003	MW-1					
EPA 6010D	Iron, Dissolved	2720	ug/L	100	06/20/22 17:34	
EPA 8260	Tetrachloroethene	28.3	ug/L	1.0	06/21/22 14:56	
EPA 8260	Trichloroethene	0.99J	ug/L	1.0	06/21/22 14:56	
EPA 8260	cis-1,2-Dichloroethene	1.6	ug/L	1.0	06/21/22 14:56	
EPA 300.0	Sulfate	17.8	mg/L	2.0	06/22/22 01:54	
SM 5310C	Total Organic Carbon	24.2	mg/L	3.0	06/23/22 13:12	
0246766004	MW-13					
EPA 8260	Tetrachloroethene	42.3	ug/L	1.0	06/21/22 15:16	
EPA 8260	Trichloroethene	0.54J	ug/L	1.0	06/21/22 15:16	
EPA 300.0	Sulfate	22.0	mg/L	2.0	06/22/22 02:08	
SM 5310C	Total Organic Carbon	1.3	mg/L	0.50	06/23/22 13:29	
0246766005	MW-17					
EPA 8260	Tetrachloroethene	58.7	ug/L	1.0	06/20/22 14:04	
EPA 8260	Trichloroethene	0.74J	ug/L	1.0	06/20/22 14:04	
EPA 300.0	Sulfate	23.7	mg/L	2.0	06/22/22 02:23	
SM 5310C	Total Organic Carbon	2.6	mg/L	0.50	06/23/22 13:45	



Project: 20.0156045.01
Pace Project No.: 40246766

Date: 06/24/2022 10:59 AM

Sample: MW-6	Lab ID:	40246766001	Collected	: 06/16/22	09:19	Received: 06	6/17/22 07:50 N	//atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifie	ed					
	Pace Anal	ytical Services	- Green Bay						
Ethane	1.6J	ug/L	5.6	0.39	1		06/21/22 11:3	5 74-84-0	
Ethene	3.1J	ug/L	5.0	0.25	1		06/21/22 11:3	5 74-85-1	
Methane	2.2J	ug/L	2.8	0.58	1		06/21/22 11:3	5 74-82-8	
6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D						
,	•	ytical Services							
Iron, Dissolved	1760	ug/L	100	29.6	1		06/20/22 17:2	9 7439-89-6	
8260 MSV	Analytical	Method: EPA 8	260						
	•	ytical Services							
Tetrachloroethene	41.4	ug/L	1.0	0.41	1		06/22/22 16:0	1 127-18-4	
Trichloroethene	2.3	ug/L	1.0	0.32	1		06/22/22 16:0	1 79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/22/22 16:0	1 75-01-4	
cis-1,2-Dichloroethene	5.5	ug/L	1.0	0.47	1		06/22/22 16:0	1 156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/22/22 16:0	1 156-60-5	
Surrogates 4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/22 16:0	1 460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		06/22/22 16:0		
Toluene-d8 (S)	101	%	70-130		1		06/22/22 16:0		
300.0 IC Anions	Analytical	Method: EPA 3	0.00						
	Pace Anal	ytical Services	- Green Bay						
Sulfate	17.0	mg/L	2.0	0.44	1		06/22/22 01:2	4 14808-79-8	
5310C TOC	Analytical	Method: SM 53	310C						
	Pace Anal	ytical Services	- Green Bay						
Total Organic Carbon	236	mg/L	15.0	4.2	30		06/23/22 12:1	8 7440-44-0	
Sample: MW-7	Lab ID:	40246766002	Collected	: 06/16/22	2 10:00	Received: 06	6/17/22 07:50 N	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifie	ed					
, ,	Pace Anal	ytical Services	- Green Bay						
Ethane	< 0.39	ug/L	5.6	0.39	1		06/21/22 11:42	2 74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		06/21/22 11:42		
Methane	<0.58	ug/L	2.8	0.58	1		06/21/22 11:42		
6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D						
	-	vtical Services							
Iron, Dissolved	195	,	100	29.6	1		06/20/22 17:2	2 7/30.20.6	
IIOII, DISSUIVEU	195	ug/L	100	29.0	1		06/20/22 17:3	<u> </u>	



Project: 20.0156045.01
Pace Project No.: 40246766

Date: 06/24/2022 10:59 AM

Sample: MW-7	Lab ID: 40	0246766002	Collected	l: 06/16/22	2 10:00	Received: 06	i/17/22 07:50 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Me	ethod: EPA 82	260						
	Pace Analyti	cal Services -	Green Bay	,					
Tetrachloroethene	48.8	ug/L	1.0	0.41	1		06/21/22 14:37	127-18-4	
Trichloroethene	1.5	ug/L	1.0	0.32	1		06/21/22 14:37		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/22 14:37	75-01-4	
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.47	1		06/21/22 14:37	156-59-2	
trans-1,2-Dichloroethene Surrogates	<0.53	ug/L	1.0	0.53	1		06/21/22 14:37	156-60-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		06/21/22 14:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		06/21/22 14:37	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/21/22 14:37	2037-26-5	
300.0 IC Anions	Analytical Me	ethod: EPA 30	0.00						
	Pace Analytic	cal Services -	Green Bay	′					
Sulfate	22.3	mg/L	2.0	0.44	1		06/22/22 01:39	14808-79-8	
5310C TOC	Analytical Me	ethod: SM 53	10C						
	Pace Analyti	cal Services -	Green Bay	1					
Total Organic Carbon	33.5	mg/L	3.0	0.83	6		06/23/22 12:56	7440-44-0	
Sample: MW-1	Lab ID: 40	0246766003	Collected	l: 06/16/22	2 10:40	Received: 06	5/17/22 07:50 Ma	atrix: Water	
Sample: MW-1 Parameters	Lab ID: 40	0246766003 Units	Collected	l: 06/16/22	2 10:40 DF	Received: 06	/17/22 07:50 Ma	cAS No.	Qual
Parameters	Results Analytical Me		LOQ D15B Modifi	LOD ed					Qual
Parameters Methane, Ethane, Ethene GCV	Results Analytical Me Pace Analytic	Units ————————————————————————————————————	LOQ 015B Modifi Green Bay	LOD ed	DF		Analyzed	CAS No.	Qual
Parameters Methane, Ethane, Ethene GCV Ethane	Results Analytical Me	Unitsethod: EPA 80 cal Services - ug/L	LOQ D15B Modifi	LOD ed				CAS No.	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene	Analytical Me Pace Analytic	Units ————————————————————————————————————	LOQ 015B Modifi Green Bay 5.6	LOD ed	DF 1		Analyzed 06/21/22 12:19	CAS No. 74-84-0 74-85-1	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me	Units ————————————————————————————————————	LOQ 015B Modifi Green Bay 5.6 5.0 2.8	LOD ed , 0.39 0.25 0.58	DF 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19	CAS No. 74-84-0 74-85-1	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me	Units ————————————————————————————————————	LOQ 015B Modifi Green Bay 5.6 5.0 2.8	LOD ed , 0.39 0.25 0.58	DF 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19	74-84-0 74-85-1 74-82-8	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me Pace Analytical Me Pace Analytical Me Pace Analytical Me Pace Analytical Me	Units — ethod: EPA 80 cal Services - ug/L ug/L ug/L ethod: EPA 60 cal Services - ug/L	LOQ 015B Modifi Green Bay 5.6 5.0 2.8 010D Green Bay	LOD ed 0.39 0.25 0.58	DF 1 1 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19 06/21/22 12:19	74-84-0 74-85-1 74-82-8	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me Pace Analytic 2720 Analytical Me	Units ethod: EPA 80 cal Services - ug/L ug/L ug/L ethod: EPA 60 cal Services -	LOQ	LOD ed , , , , , , , , , , , , , ,	DF 1 1 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19 06/21/22 12:19	74-84-0 74-85-1 74-82-8	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me Pace Analytic 2720 Analytical Me	Units ethod: EPA 86 cal Services - ug/L ug/L ug/L ethod: EPA 66 cal Services - ug/L ethod: EPA 82	LOQ	LOD ed , , , , , , , , , , , , , ,	DF 1 1 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19 06/21/22 12:19	74-84-0 74-85-1 74-82-8	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me Pace Analytic 2720 Analytical Me Pace Analytical Me Pace Analytical Me	Units ethod: EPA 86 cal Services - ug/L ug/L ethod: EPA 66 cal Services - ug/L ethod: EPA 82 cal Services -	LOQ 015B Modification 5.6 5.0 2.8 010D Green Bay 100 260 Green Bay	LOD ed , , , , , , , , , , , , , ,	DF 1 1 1 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19 06/21/22 12:19 06/20/22 17:34	74-84-0 74-85-1 74-82-8 7439-89-6	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me Pace Analytic 2720 Analytical Me Pace Analytical Me	Units ————————————————————————————————————	LOQ 015B Modificer Green Bay 5.6 5.0 2.8 010D Green Bay 100 260 Green Bay 1.0	LOD ed 0.39 0.25 0.58	DF 1 1 1 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19 06/21/22 12:19 06/20/22 17:34 06/21/22 14:56 06/21/22 14:56 06/21/22 14:56	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me Pace Analytic 2720 Analytical Me Pace Analytic 28.3 0.99J <0.17 1.6	Units ————————————————————————————————————	LOQ 015B Modificer Green Bay 5.6 5.0 2.8 010D Green Bay 100 260 Green Bay 1.0 1.0	LOD ed , 0.39 0.25 0.58 , 29.6	DF 1 1 1 1 1 1 1 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19 06/21/22 12:19 06/20/22 17:34 06/20/22 14:56 06/21/22 14:56 06/21/22 14:56 06/21/22 14:56	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me Pace Analytic 2720 Analytical Me Pace Analytical Me	Units ————————————————————————————————————	100 15B Modific Green Bay 5.6 5.0 2.8 100 Green Bay 100 Green Bay 1.0 1.0 1.0	LOD ed , 0.39 0.25 0.58 , 29.6 , 0.41 0.32 0.17	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19 06/21/22 12:19 06/20/22 17:34 06/21/22 14:56 06/21/22 14:56 06/21/22 14:56	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2	Qua
·	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me Pace Analytic 2720 Analytical Me Pace Analytic 28.3 0.99J <0.17 1.6	Units — ethod: EPA 86 cal Services - ug/L ug/L ethod: EPA 66 cal Services - ug/L ethod: EPA 82 cal Services - ug/L ug/L ug/L ug/L ug/L ug/L	LOQ ————————————————————————————————————	LOD ed , 0.39 0.25 0.58 , 29.6 , 0.41 0.32 0.17 0.47	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19 06/21/22 12:19 06/20/22 17:34 06/20/22 14:56 06/21/22 14:56 06/21/22 14:56 06/21/22 14:56	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5	Qua
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates	Analytical Me Pace Analytic <0.39 <0.25 <0.58 Analytical Me Pace Analytic 2720 Analytical Me Pace Analytic 28.3 0.99J <0.17 1.6 <0.53	Units —— ethod: EPA 80 cal Services - ug/L ug/L ethod: EPA 60 cal Services - ug/L ethod: EPA 82 cal Services - ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	LOQ	LOD ed , 0.39 0.25 0.58 , 29.6 , 0.41 0.32 0.17 0.47	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 06/21/22 12:19 06/21/22 12:19 06/21/22 12:19 06/20/22 17:34 06/20/22 14:56 06/21/22 14:56 06/21/22 14:56 06/21/22 14:56	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5 460-00-4	Qua

REPORT OF LABORATORY ANALYSIS

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Project: 20.0156045.01
Pace Project No.: 40246766

Date: 06/24/2022 10:59 AM

Sample: MW-1	Lab ID:	40246766003	Collected	l: 06/16/2:	2 10:40	Received: 06	6/17/22 07:50 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	•	Method: EPA 3 lytical Services		,					
Sulfate	17.8	mg/L	2.0	0.44	1		06/22/22 01:54	14808-79-8	
5310C TOC	•	Method: SM 53 lytical Services		,					
Total Organic Carbon	24.2	mg/L	3.0	0.83	6		06/23/22 13:12	7440-44-0	
Sample: MW-13	Lab ID:	40246766004	Collected	1: 06/16/2	2 11:49	Received: 06	6/17/22 07:50 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Method: EPA 8 lytical Services							
Ethane	<0.39	ug/L	5.6	0.39	1		06/21/22 12:26	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		06/21/22 12:26	74-85-1	
Methane	<0.58	ug/L	2.8	0.58	1		06/21/22 12:26	74-82-8	
6010D MET ICP, Dissolved		Method: EPA 6 lytical Services		,					
Iron, Dissolved	<29.6	ug/L	100	29.6	1		06/20/22 17:37	7439-89-6	
8260 MSV		Method: EPA 8 lytical Services		,					
Tetrachloroethene	42.3	ug/L	1.0	0.41	1		06/21/22 15:16	127-18-4	
Trichloroethene	0.54J	ug/L	1.0	0.32	1		06/21/22 15:16	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/22 15:16	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/21/22 15:16	156-59-2	
trans-1,2-Dichloroethene Surrogates	<0.53	ug/L	1.0	0.53	1		06/21/22 15:16	156-60-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		06/21/22 15:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		06/21/22 15:16	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/21/22 15:16	2037-26-5	
300.0 IC Anions		Method: EPA 3							
	Pace Ana	lytical Services	- Green Bay	1					
Sulfate	22.0	mg/L	2.0	0.44	1		06/22/22 02:08	14808-79-8	
5310C TOC	•	Method: SM 53 lytical Services		,					
Total Organic Carbon	1.3	mg/L	0.50	0.14	1		06/23/22 13:29		



Project: 20.0156045.01
Pace Project No.: 40246766

Date: 06/24/2022 10:59 AM

Sample: MW-17	Lab ID:	40246766005	Collected	l: 06/16/2	2 12:40	Received: 06	6/17/22 07:50 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifi	ed					
,	•	lytical Services							
Ethane	<0.39	ug/L	5.6	0.39	1		06/21/22 12:33	8 74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		06/21/22 12:33		
Methane	<0.58	ug/L	2.8	0.58	1		06/21/22 12:33		
6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D						
	Pace Ana	lytical Services	- Green Bay	/					
Iron, Dissolved	<29.6	ug/L	100	29.6	1		06/20/22 17:39	7439-89-6	
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Ana	lytical Services	- Green Bay	/					
Tetrachloroethene	58.7	ug/L	1.0	0.41	1		06/20/22 14:04	127-18-4	
Trichloroethene	0.74J	ug/L	1.0	0.32	1		06/20/22 14:04	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/22 14:04	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/20/22 14:04	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/20/22 14:04	156-60-5	
Surrogates		_							
4-Bromofluorobenzene (S)	99	%	70-130		1		06/20/22 14:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		06/20/22 14:04	1 2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		06/20/22 14:04	2037-26-5	
300.0 IC Anions	Analytical	Method: EPA 3	0.00						
	Pace Ana	lytical Services	- Green Bay	/					
Sulfate	23.7	mg/L	2.0	0.44	1		06/22/22 02:23	3 14808-79-8	
5310C TOC	Analytical	Method: SM 53	10C						
	•	lytical Services		/					
Total Organic Carbon	2.6	mg/L	0.50	0.14	1		06/23/22 13:45	7440-44-0	
Sample: TRIP	Lab ID:	40246766006	Collected	l: 06/16/2	2 00:00	Received: 06	6/17/22 07:50 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	260						
	-	lytical Services		/					
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/20/22 12:21	I 127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/20/22 12:21		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/22 12:21	T 75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/20/22 12:21		
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/20/22 12:21		
Surrogates		J							
4-Bromofluorobenzene (S)	99	%	70-130		1		06/20/22 12:21	l 460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/20/22 12:21	2199-69-1	
	98								

REPORT OF LABORATORY ANALYSIS

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(920)469-2436



QUALITY CONTROL DATA

Project: 20.0156045.01 Pace Project No.: 40246766

Date: 06/24/2022 10:59 AM

QC Batch: 418891 Analysis Method: EPA 8015B Modified

QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

METHOD BLANK: 2412260 Matrix: Water

Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	06/21/22 09:57	
Ethene	ug/L	<0.25	5.0	06/21/22 09:57	
Methane	ug/L	<0.58	2.8	06/21/22 09:57	

LABORATORY CONTROL SAMPLE &	LCSD: 2412261		24	112262						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Ethane	ug/L	53.6	51.8	53.6	97	100	74-120	3	20	
Ethene	ug/L	50	48.3	50.1	97	100	71-122	4	20	
Methane	ug/L	28.6	28.6	30.0	100	105	73-120	5	20	

MATRIX SPIKE & MATRIX SI	PIKE DUPLI	CATE: 2412	510	2412511								
			MS	MSD								
	4	40246544018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	49.2	54.0	92	101	70-120	9	20	
Ethene	ug/L	<0.25	50	50	45.6	50.0	91	100	68-122	9	20	
Methane	ug/L	<0.58	28.6	28.6	26.8	29.6	94	104	10-200	10	20	

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QUALITY CONTROL DATA

Project: 20.0156045.01 Pace Project No.: 40246766

QC Batch: 418837 Analysis Method: EPA 6010D

QC Batch Method: EPA 6010D Analysis Description: ICP Metals, Trace, Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

METHOD BLANK: 2411976 Matrix: Water

Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Iron, Dissolved ug/L <29.6 100 06/20/22 16:36

LABORATORY CONTROL SAMPLE: 2411977

Date: 06/24/2022 10:59 AM

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units ug/L Iron, Dissolved 10000 10200 102 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2411978 2411979

MS MSD

40246456005 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result % Rec % Rec **RPD** RPD Qual Result Conc. Result Limits Iron, Dissolved 102000 20 ug/L 92600 10000 10000 103000 95 100 75-125

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Date: 06/24/2022 10:59 AM

QUALITY CONTROL DATA

Project: 20.0156045.01 Pace Project No.: 40246766

QC Batch: 418738 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004

METHOD BLANK: 2411724 Matrix: Water
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/21/22 07:58	
Tetrachloroethene	ug/L	<0.41	1.0	06/21/22 07:58	
trans-1,2-Dichloroethene	ug/L	< 0.53	1.0	06/21/22 07:58	
Trichloroethene	ug/L	< 0.32	1.0	06/21/22 07:58	
Vinyl chloride	ug/L	<0.17	1.0	06/21/22 07:58	
1,2-Dichlorobenzene-d4 (S)	%	96	70-130	06/21/22 07:58	
4-Bromofluorobenzene (S)	%	99	70-130	06/21/22 07:58	
Toluene-d8 (S)	%	101	70-130	06/21/22 07:58	

LABORATORY CONTROL SAMPLE:	2411725					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	48.6	97	70-130	
Tetrachloroethene	ug/L	50	55.0	110	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	70-130	
Trichloroethene	ug/L	50	52.6	105	70-130	
Vinyl chloride	ug/L	50	36.1	72	63-134	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 2412	553		2412554	,						
			MS	MSD								
	4	0246723002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	47.9	50.3	96	101	70-130	5	20	
Tetrachloroethene	ug/L	<0.41	50	50	52.6	54.8	105	110	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	52.9	55.4	106	111	70-130	5	20	
Trichloroethene	ug/L	< 0.32	50	50	50.2	52.8	100	106	70-130	5	20	
Vinyl chloride	ug/L	<0.17	50	50	34.6	36.0	69	72	60-137	4	20	
1,2-Dichlorobenzene-d4 (S)	%						99	100	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						99	101	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: 20.0156045.01 Pace Project No.: 40246766

QC Batch: 418748 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246766005, 40246766006

METHOD BLANK: 2411766 Matrix: Water

Associated Lab Samples: 40246766005, 40246766006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/20/22 09:16	
Tetrachloroethene	ug/L	<0.41	1.0	06/20/22 09:16	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/20/22 09:16	
Trichloroethene	ug/L	< 0.32	1.0	06/20/22 09:16	
Vinyl chloride	ug/L	<0.17	1.0	06/20/22 09:16	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	06/20/22 09:16	
4-Bromofluorobenzene (S)	%	100	70-130	06/20/22 09:16	
Toluene-d8 (S)	%	98	70-130	06/20/22 09:16	

LABORATORY CONTROL SAMPLE: 2411767

Date: 06/24/2022 10:59 AM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.4	113	70-130	
Trichloroethene	ug/L	50	55.7	111	70-130	
Vinyl chloride	ug/L	50	38.7	77	63-134	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

(920)469-2436



Sulfate

Date: 06/24/2022 10:59 AM

QUALITY CONTROL DATA

Project: 20.0156045.01 Pace Project No.: 40246766

QC Batch: 418974 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

METHOD BLANK: 2412568 Matrix: Water

Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

Blank Reporting

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 mg/L
 0.50J
 2.0
 06/21/22 23:10

LABORATORY CONTROL SAMPLE: 2412569

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units mg/L Sulfate 20 21.4 107 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412570 2412571

MS MSD

40246773001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Limits 16.7 107 Sulfate mg/L 20 20 38.1 38.0 107 90-110 0 15

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

(920)469-2436



QUALITY CONTROL DATA

Project: 20.0156045.01 Pace Project No.: 40246766

QC Batch: 419171 Analysis Method: SM 5310C

QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

METHOD BLANK: 2413843 Matrix: Water

Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Organic Carbon mg/L <0.14 0.50 06/23/22 09:46

LABORATORY CONTROL SAMPLE: 2413844

Date: 06/24/2022 10:59 AM

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units mg/L **Total Organic Carbon** 12.5 12.3 98 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2413845 2413846

MS MSD

40246555005 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Limits **Total Organic Carbon** 94 mg/L 5.1 12 12 16.4 16.9 98 80-120 3 10

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 20.0156045.01 Pace Project No.: 40246766

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 06/24/2022 10:59 AM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.01 Pace Project No.: 40246766

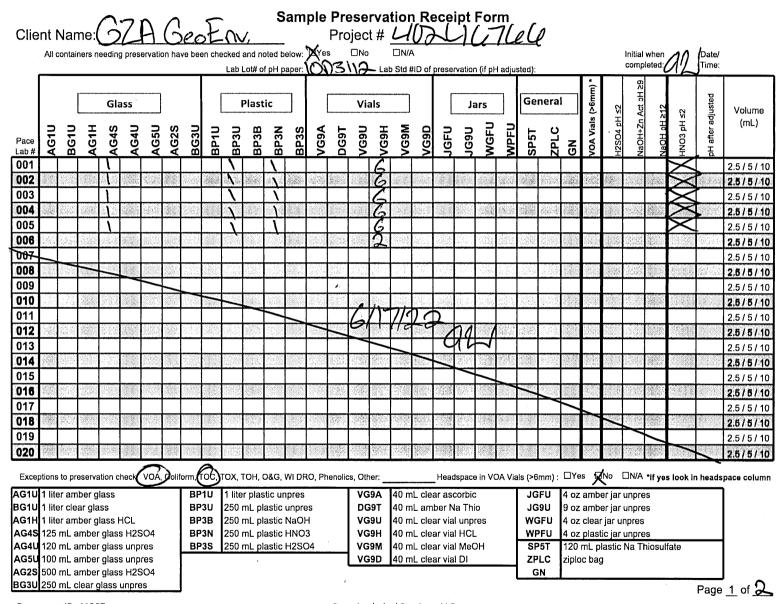
Date: 06/24/2022 10:59 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246766001	MW-6	EPA 8015B Modified	418891		
40246766002	MW-7	EPA 8015B Modified	418891		
40246766003	MW-1	EPA 8015B Modified	418891		
40246766004	MW-13	EPA 8015B Modified	418891		
40246766005	MW-17	EPA 8015B Modified	418891		
40246766001	MW-6	EPA 6010D	418837		
40246766002	MW-7	EPA 6010D	418837		
40246766003	MW-1	EPA 6010D	418837		
40246766004	MW-13	EPA 6010D	418837		
40246766005	MW-17	EPA 6010D	418837		
0246766001	MW-6	EPA 8260	418738		
10246766002	MW-7	EPA 8260	418738		
40246766003	MW-1	EPA 8260	418738		
10246766004	MW-13	EPA 8260	418738		
40246766005	MW-17	EPA 8260	418748		
40246766006	TRIP	EPA 8260	418748		
10246766001	MW-6	EPA 300.0	418974		
10246766002	MW-7	EPA 300.0	418974		
10246766003	MW-1	EPA 300.0	418974		
10246766004	MW-13	EPA 300.0	418974		
40246766005	MW-17	EPA 300.0	418974		
40246766001	MW-6	SM 5310C	419171		
40246766002	MW-7	SM 5310C	419171		
10246766003	MW-1	SM 5310C	419171		
10246766004	MW-13	SM 5310C	419171		
10246766005	MW-17	SM 5310C	419171		

Pace Analytical*	CHAIN-OF-CUSTODY Analytical Request Document oalytical* Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields								LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here							-,						
Company:	Chain-o	f-Custody	is a LEGAL I Billing Info		T - Complet	e all releve	nt fields	,										salah dalah da		70	1W	4
GZA CHEOENVIRONI	mental									20 Nigeria	340 - 100	10 1	100000	1.位置1500年	in Michiga	REAS a	re for L	geriff filmskipen.	78-5-5-5-68-9-8	á (1850)	100 x 100 x 100	
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	4/80/		Email To:	rulster	ddress:	1000	A-6	<u>0</u> M	** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate,													
Copy To:			Site Collec	tion Info/A	ddress:	tion out to product							(D) TSP, (L	J) Unpres					, dillillollidill 30			
Customer Project Name/Number:			State:	County/Cit		ne Zone Co			- 44				Analyse	S			Lab Prof		ceipt Chec	klist:		$\overline{/}$
20.0156045.			WI/C	ECNO, 101	سەد ا] ET			12000								Present/I		YNNX	
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Collected By (print):	Purchase Order	r #:			DW PWS I	630										90 y 1	Corre	es Intac ct Bottl cient Vo	es 🔾	_/	N NA N NA Y N NA	
Sheyl Stephenson Collected By (signature):	Quote #: Turnaround Da	to Requir	ad.		DW Locati	on Code: ely Packed o	on Ice:			2	1985 a						Samp1	es Recei	ved on lee ce Accepta	Pas	N NA N NA	
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[] Archive:	[] 2 Day [] 3 Day	[] 4 Day		1	Diss 10	о Л		1								Sampl pH St	e par de	oppay 16	1 - 1 - 1 - 1	Y N NA	632-45
[>] Hold:* * Matrix Codes (Insert in Matrix box	1		rges Apply)	nd Water (_	2 (K)				B				Sulfi	rips de Prese Acerate	Strips:	S NAW .	Y N NA	et parties de la se
Product (P), Soil/Solid (SL), Oil (OL									Cs	0	173			(A)				SE ONLY:	J —			
Customer Sample ID	Matrix *	Comp / Grab	Compos	ted (or ite Start)	·	site End		# of Ctns	ω	3/W	SYLC	10 10	SSIC						/ Comments			5-18-14-14-14-14-14-14-14-14-14-14-14-14-14-
MW-6	GW	G	6(16/22	Time 0919	Date	Time			<u> </u>	\sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	×	$\dot{\aleph}$	$\sqrt{\chi}$	28	Н	V 1 3 8 1	+ (c)	<u> </u>		88. 88.92-11.11. N. A.	<u> </u>	Transmitted
MW-7	GW	G	6/16/22						10	$\frac{\sim}{\infty}$	8	X	$\frac{2}{\infty}$			19:00	18 A	2		and the second		
mw-1	GW) c	6/16/22						8	$\stackrel{\frown}{\sim}$	 '	\propto	\times	- 33		ve.c.#20	00	3	NK- PC SS	35 - 1845 T	de to re-	
Mw-13	GW	d	6/16/22					1	×	~	×	8	X	i ye dike		łeż n	00	q	e i objet i sem	\$4.38°):	Branch Control	4.46
MW-17	GW	G	6/16/22	1240					\times	×	×	∞	\times			200	00	<u> </u>	1/26-3	796	(A) 197.116	Karing.
TRIP	W	_	6/16/22						X									6				
			-								15 (8)		- 44						480,784 mil.		3,	states (1)
									900 A		S 280.		ederaja Variana	lic sets.			-		Excessor and Alexander	å: Se -	- Av.	2.00
														PY NA					To a control			10.000
Customer Remarks / Special Conditi	ions / Possible H	lazards:	Type of Ice	Used:	Vet E	l Ilue Dr	y Nor	ne		SHO	RT HO	LDS PF	RESENT (<	72 hours	s): Y	N N/	Α	Lab Sam	ple Temperat	ure Info	o:	/
			Packing M	aterial Use	d:		~			Lab	Tracki	ng #:		278	110	121	light of and	1.0	Blank Receiv n ID#:	red:	Y N NA	
		•	1-18-7-1				0		200	Maria Lares				<u> </u>) T () J.L.		Coole	er 1 Temp Upo			60
			Radchem :	sample(s) s	ereened (<	00 cpm):	YN	NA	Sec. 54		ples re FEDEX			ent (Courier	Pace	Courier		er 1 Therm Co er 1 Correcteg		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	oC oC
Relinquished by/Company: (Signatu	re)	Date	e/Time:		Received b	y/Company	: (Signatu	re)			Date/	lime:			MTJ	LAB USE	ONLY	The state of the s	ments: (S)/		
Manto G	-ZA	611	6/22	2.45 om	CS lo	aistics	,				6116	122	2.45	\sim	le#:			-				
Relinquished by/Company: (Signatu	re) .	Date	e/Time:	Received by Company: (Signature)					1 1	,	Date/			. 7	tnum: nplate:	er selen e			lank Received		N NA	Company of the control
(5) Logistic			7/220					excel 6/1/22 0 150 Prelogin: HCL MEOH TSP				Other										
Relinquished by/Company: (Signatu	re)	Date	/Time: Received by/Company: (Signature)					Date/Time: PM: Non Conformance(s): PB: YES / NO					ige: Pa	ge 18 of 20								

DC# Title: ENV-FRM-GBAY-0035 v01 Sample Preservation Receipt Form

Revision: 3 | Effective Date: | Issued by: Green Bay



DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR Revision: 3 | Effective Date: | Issued by: Green Bay

Sample Condition Upon Receipt Form (SCUR) Project #: Project #: Project #: Project #:

Client Name: (54-) Gesta	V .	_	่ ₩0#∶40246766
Courier: CS Logistics Fed Ex Speede	ee 🗆 UPS	□W	altco
Client Pace Other:			
Tracking #:			40246766
Custody Seal on Cooler/Box Present: yeş	no Seals	intact:	☐ yes ☐ no
Custody Seal on Samples Present: 📋 yes 💢	no Seals	intact:	☐ yes ☐ no
Packing Material: Bubble Wrap Bubble Wrap	ole Bags 🏻 🖺	None	Other
Thermometer Used SR -\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Type of Ice:	(Wet)	Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: // /Corr: /		-	Person examining contents:
Temp Blank Present: yes no	Biolo	gical 1	issue is Frozen: yes no Date: 6/1/22/Initials:
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dr	y Ice.		Labeled By Initials:_Mf
Chain of Custody Present:	Yes □No	□n/a	1.
Chain of Custody Filled Out:	□Yes S No	□n/a	200 patt, phone 6/17/22 al
Chain of Custody Relinquished:	X Yes □No	□n/a	3.
Sampler Name & Signature on COC:	Y(Yes □No	□n/a	4.
Samples Arrived within Hold Time:	XYes □No	* *	5.
- VOA Samples frozen upon receipt	□Yes □No	* *	Date/Time:
Short Hold Time Analysis (<72hr):	□Yes V INo		6.
Rush Turn Around Time Requested:	□Yes XNo		7.
Sufficient Volume:			8.
For Analysis: Mayes □No MS/MSD	: □Yes XNo	□n/a	
Correct Containers Used:	XYes □No		9.
-Pace Containers Used:	XYes □No	□n/a	
-Pace IR Containers Used:	□Yes □No	XN/A	
Containers Intact:	Yes □No		10.
Filtered volume received for Dissolved tests	XYes □No	□n/a	11.
Sample Labels match COC:	□Yes XNo	□n/a	12004 BO3N: "Oqua" 6/17/22-9
-Includes date/time/ID/Analysis Matrix:	ω		•
Trip Blank Present:	Yes □No	N/A	13.
Trip Blank Custody Seals Present	Xes □No	□n/a	
Pace Trip Blank Lot # (if purchased): 483			<u>·</u>
Client Notification/ Resolution:			If checked, see attached form for additional comments
Person Contacted:		_Date/	Time:
Comments/ Resolution:			

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Page 2 of 2

Qualtrax Document ID: 41292

Pace Analytical Services, LLC





July 21, 2022

Sheryl Stephenson GZA GeoEnvironmental 17975 West Sarah Lane Suite 100 Brookfield, WI 53045

RE: Project: 20.0156045.02 Pace Project No.: 40248079

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

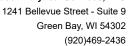
Christopher Hyska christopher.hyska@pacelabs.com (920)469-2436

Chushpher Hyska

Project Manager

Enclosures







CERTIFICATIONS

Project: 20.0156045.02 Pace Project No.: 40248079

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project: 20.0156045.02 Pace Project No.: 40248079

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40248079001	MW-6	Water	07/13/22 11:09	07/14/22 08:00
40248079002	MW-7	Water	07/13/22 13:19	07/14/22 08:00
40248079003	MW-1	Water	07/13/22 13:57	07/14/22 08:00
40248079004	MW-13	Water	07/13/22 14:47	07/14/22 08:00
40248079005	MW-17	Water	07/13/22 15:27	07/14/22 08:00
40248079006	TRIP	Water	07/13/22 00:00	07/14/22 08:00



SAMPLE ANALYTE COUNT

Project: 20.0156045.02 Pace Project No.: 40248079

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40248079001	MW-6	EPA 8015B Modified	KНВ	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079002 MV	MW-7	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079003	MW-1	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	НМВ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079004	MW-13	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079005	MW-17	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	НМВ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079006	TRIP	EPA 8260	LAP	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 20.0156045.02 Pace Project No.: 40248079

Lab Sample ID	Client Sample ID								
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers			
10248079001	MW-6								
EPA 8015B Modified	Ethane	4.8J	ug/L	5.6	07/19/22 11:09				
EPA 8015B Modified	Ethene	4.5J	ug/L	5.0	07/19/22 11:09				
EPA 6010D	Iron, Dissolved	33300	ug/L	100	07/19/22 17:28				
EPA 8260	Tetrachloroethene	47.4	ug/L	1.0	07/18/22 12:38				
EPA 8260	Trichloroethene	2.9	ug/L	1.0	07/18/22 12:38				
EPA 8260	Vinyl chloride	0.50J	ug/L	1.0	07/18/22 12:38				
EPA 8260	cis-1,2-Dichloroethene	7.3	ug/L	1.0	07/18/22 12:38				
SM 5310C	Total Organic Carbon	666	mg/L	30.0	07/19/22 13:08				
0248079002	MW-7								
EPA 6010D	Iron, Dissolved	5640	ug/L	100	07/19/22 17:31				
EPA 8260	Tetrachloroethene	66.3	ug/L	1.0	07/15/22 14:01				
EPA 8260	Trichloroethene	2.2	ug/L	1.0	07/15/22 14:01				
EPA 8260	cis-1,2-Dichloroethene	1.9	ug/L	1.0	07/15/22 14:01				
EPA 300.0	Sulfate	6.9J	mg/L	10.0	07/15/22 12:43	D3			
SM 5310C	Total Organic Carbon	70.0	mg/L	15.0	07/19/22 13:23				
0248079003	MW-1								
EPA 6010D	Iron, Dissolved	4800	ug/L	100	07/19/22 17:33				
EPA 8260	Tetrachloroethene	74.7	ug/L	1.0	07/15/22 14:22				
EPA 8260	Trichloroethene	6.9	ug/L	1.0	07/15/22 14:22				
EPA 8260	cis-1,2-Dichloroethene	10.5	ug/L	1.0	07/15/22 14:22				
SM 5310C	Total Organic Carbon	45.1	mg/L	10.0	07/19/22 13:38				
0248079004	MW-13								
EPA 6010D	Iron, Dissolved	92.8J	ug/L	100	07/19/22 17:40				
EPA 8260	Tetrachloroethene	41.0	ug/L	1.0	07/15/22 14:42				
EPA 8260	Trichloroethene	0.59J	ug/L	1.0	07/15/22 14:42				
EPA 300.0	Sulfate	23.1	mg/L	2.0	07/15/22 13:11				
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	07/20/22 03:35				
0248079005	MW-17								
EPA 8260	Tetrachloroethene	66.2	ug/L	1.0	07/15/22 15:03				
EPA 8260	Trichloroethene	0.57J	ug/L	1.0	07/15/22 15:03				
EPA 300.0	Sulfate	23.4	mg/L	2.0	07/15/22 13:26				
SM 5310C	Total Organic Carbon	2.2	mg/L	0.50	07/19/22 14:10				



Project: 20.0156045.02
Pace Project No.: 40248079

Date: 07/21/2022 04:41 PM

Sample: MW-6	Lab ID:	40248079001	Collected: 07/13/22 11:09			Received: 07/14/22 08:00 Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifi	ed						
, ,	-	ytical Services								
Ethane	4.8J	ug/L	5.6	0.39	1		07/19/22 11:09	74-84-0		
Ethene	4.5J	ug/L	5.0	0.25	1		07/19/22 11:09			
Methane	<0.58	ug/L	2.8	0.58	1		07/19/22 11:09	74-82-8		
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D									
	Pace Analytical Services - Green Bay									
Iron, Dissolved	33300	ug/L	100	29.6	1		07/19/22 17:28	7439-89-6		
8260 MSV	Analytical Method: EPA 8260									
	Pace Analytical Services - Green Bay									
Tetrachloroethene	47.4	ug/L	1.0	0.41	1		07/18/22 12:38	127-18-4		
Trichloroethene	2.9	ug/L	1.0	0.32	1		07/18/22 12:38	79-01-6		
Vinyl chloride	0.50J	ug/L	1.0	0.17	1		07/18/22 12:38	75-01-4		
cis-1,2-Dichloroethene	7.3	ug/L	1.0	0.47	1		07/18/22 12:38	156-59-2		
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		07/18/22 12:38	156-60-5		
Surrogates 4-Bromofluorobenzene (S)	106	%	70-130		1		07/18/22 12:38	460-00-4		
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		07/18/22 12:38			
Toluene-d8 (S)	93	%	70-130		1		07/18/22 12:38	2037-26-5		
300.0 IC Anions	Analytical	Method: EPA 3	0.00							
	Pace Anal	ytical Services	- Green Bay	,						
Sulfate	<2.2	mg/L	10.0	2.2	5		07/15/22 11:59	14808-79-8	D3	
5310C TOC	Analytical Method: SM 5310C									
	Pace Anal	ytical Services	- Green Bay	,						
Total Organic Carbon	666	mg/L	30.0	8.3	60		07/19/22 13:08	7440-44-0		
Sample: MW-7	Lab ID:	40248079002	Collected	: 07/13/22	13:19	Received: 07	7/14/22 08:00 Ma	atrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifi	ed						
•	Pace Anal	ytical Services	- Green Bay	,						
Ethane	<0.39	ug/L	5.6	0.39	1		07/19/22 11:15	74-84-0		
Ethene	<0.25	ug/L	5.0	0.25	1		07/19/22 11:15			
Methane	<0.58	ug/L	2.8	0.58	1		07/19/22 11:15	74-82-8		
6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D							
	Pace Anal	ytical Services	- Green Bay	,						
Iron, Dissolved	5640	ug/L	100	29.6	1		07/19/22 17:31	7439-89-6		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: 20.0156045.02
Pace Project No.: 40248079

Date: 07/21/2022 04:41 PM

Sample: MW-7	Lab ID: 40248079002		Collected: 07/13/22 13:19			Received: 07/14/22 08:00 Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical M	lethod: EPA 82	260						
	Pace Analy	tical Services -	Green Bay	/					
Tetrachloroethene	66.3	ug/L	1.0	0.41	1		07/15/22 14:01	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.32	1		07/15/22 14:01		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/15/22 14:01	75-01-4	
cis-1,2-Dichloroethene	1.9	ug/L	1.0	0.47	1		07/15/22 14:01	156-59-2	
trans-1,2-Dichloroethene Surrogates	<0.53	ug/L	1.0	0.53	1		07/15/22 14:01	156-60-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		07/15/22 14:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		07/15/22 14:01	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/15/22 14:01	2037-26-5	
300.0 IC Anions	•	lethod: EPA 30							
	Pace Analy	tical Services -	Green Bay	/					
Sulfate	6.9J	mg/L	10.0	2.2	5		07/15/22 12:43	14808-79-8	D3
5310C TOC	•	lethod: SM 53 tical Services -		/					
Total Organic Carbon	70.0	mg/L	15.0	4.2	30		07/19/22 13:23	7440-44-0	
Sample: MW-1	Lab ID: 4	0248079003	Collected	d: 07/13/22	2 13:57	Received: 07	7/14/22 08:00 Ma	atrix: Water	
Doromotoro	Deculte	Units	LOQ	LOD	DF	Prepared	Analyzad	CAS No.	Oue
Parameters	Results	Office —				Frepareu	Analyzed		Qua
Methane, Ethane, Ethene GCV	Analytical M Pace Analy	lethod: EPA 80		ied					
	i doc / tildiy	licai Sei vices -	· Green Bay	/					
Ethane	•		•		1		07/19/22 11:22	74-84-0	
	<0.39 <0.25	ug/L	5.6	0.39	1 1		07/19/22 11:22 07/19/22 11:22		
Ethene	<0.39		•				07/19/22 11:22 07/19/22 11:22 07/19/22 11:22	74-85-1	
Ethene Methane	<0.39 <0.25 <0.58	ug/L ug/L	5.6 5.0 2.8	0.39 0.25	1		07/19/22 11:22	74-85-1	
Ethene Methane	<0.39 <0.25 <0.58 Analytical M	ug/L ug/L ug/L	5.6 5.0 2.8 010D	0.39 0.25 0.58	1		07/19/22 11:22	74-85-1	
Ethene Methane 6010D MET ICP, Dissolved	<0.39 <0.25 <0.58 Analytical M	ug/L ug/L ug/L lethod: EPA 60	5.6 5.0 2.8 010D	0.39 0.25 0.58	1		07/19/22 11:22	74-85-1 74-82-8	
Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved	<0.39 <0.25 <0.58 Analytical Mace Analytical	ug/L ug/L ug/L lethod: EPA 60 tical Services - ug/L	5.6 5.0 2.8 010D Green Bay	0.39 0.25 0.58	1 1		07/19/22 11:22 07/19/22 11:22	74-85-1 74-82-8	
Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved	<0.39 <0.25 <0.58 Analytical Mace Analytical	ug/L ug/L ug/L lethod: EPA 60 tical Services -	5.6 5.0 2.8 010D • Green Bay 100	0.39 0.25 0.58	1 1		07/19/22 11:22 07/19/22 11:22	74-85-1 74-82-8	
Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV	<0.39 <0.25 <0.58 Analytical Mace Analytical	ug/L ug/L ug/L lethod: EPA 60 tical Services - ug/L lethod: EPA 82	5.6 5.0 2.8 010D • Green Bay 100	0.39 0.25 0.58	1 1		07/19/22 11:22 07/19/22 11:22	74-85-1 74-82-8 7439-89-6	
Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene	<0.39 <0.25 <0.58 Analytical Magnetic Place Analytical Magnetic Place Analytical Magnetic Place Analytical Magnetic Place Analytic Place	ug/L ug/L ug/L lethod: EPA 60 tical Services - ug/L lethod: EPA 82 tical Services -	5.6 5.0 2.8 010D • Green Bay 100 260 • Green Bay	0.39 0.25 0.58	1 1		07/19/22 11:22 07/19/22 11:22 07/19/22 17:33	74-85-1 74-82-8 7439-89-6 127-18-4	
Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene	<0.39 <0.25 <0.58 Analytical Magnetic	ug/L ug/L ug/L lethod: EPA 60 tical Services - ug/L lethod: EPA 82 tical Services - ug/L	5.6 5.0 2.8 010D • Green Bay 100 260 • Green Bay	0.39 0.25 0.58 / 29.6	1 1 1		07/19/22 11:22 07/19/22 11:22 07/19/22 17:33 07/15/22 14:22	74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6	
Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride	<0.39 <0.25 <0.58 Analytical Magnetic	ug/L ug/L dethod: EPA 60 tical Services - ug/L dethod: EPA 82 tical Services - ug/L ug/L	5.6 5.0 2.8 010D • Green Bay 100 • Green Bay 1.0 1.0	0.39 0.25 0.58 / 29.6 / 0.41 0.32	1 1 1 1 1		07/19/22 11:22 07/19/22 11:22 07/19/22 17:33 07/15/22 14:22 07/15/22 14:22	74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4	
Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene	<0.39 <0.25 <0.58 Analytical Magnetical Mag	ug/L ug/L ug/L lethod: EPA 60 tical Services - ug/L tical Services - ug/L ug/L	5.6 5.0 2.8 010D • Green Bay 100 • Green Bay 1.0 1.0	0.39 0.25 0.58 / 29.6 / 0.41 0.32 0.17	1 1 1 1 1 1 1		07/19/22 11:22 07/19/22 11:22 07/19/22 17:33 07/15/22 14:22 07/15/22 14:22 07/15/22 14:22 07/15/22 14:22 07/15/22 14:22	74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5	
Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates 4-Bromofluorobenzene (S)	<0.39 <0.25 <0.58 Analytical Magnetical Mag	ug/L ug/L lethod: EPA 60 tical Services - ug/L lethod: EPA 82 tical Services - ug/L ug/L ug/L ug/L ug/L	5.6 5.0 2.8 010D • Green Bay 100 • Green Bay 1.0 1.0 1.0	0.39 0.25 0.58 / 29.6 / 0.41 0.32 0.17 0.47	1 1 1 1 1 1		07/19/22 11:22 07/19/22 11:22 07/19/22 17:33 07/15/22 14:22 07/15/22 14:22 07/15/22 14:22 07/15/22 14:22	74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5	
Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates	<0.39 <0.25 <0.58 Analytical Magnetical Mag	ug/L ug/L lethod: EPA 60 tical Services - ug/L lethod: EPA 82 tical Services - ug/L ug/L ug/L ug/L ug/L ug/L	5.6 5.0 2.8 010D • Green Bay 100 • Green Bay 1.0 1.0 1.0	0.39 0.25 0.58 / 29.6 / 0.41 0.32 0.17 0.47	1 1 1 1 1 1 1		07/19/22 11:22 07/19/22 11:22 07/19/22 17:33 07/15/22 14:22 07/15/22 14:22 07/15/22 14:22 07/15/22 14:22 07/15/22 14:22	74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5 460-00-4	

REPORT OF LABORATORY ANALYSIS

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Project: 20.0156045.02
Pace Project No.: 40248079

Date: 07/21/2022 04:41 PM

Sample: MW-1	Lab ID:	40248079003	Collected	d: 07/13/2	2 13:57	Received: 07	7/14/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions		Method: EPA 3 lytical Services		/					
Sulfate	<2.2	mg/L	10.0	2.2	5		07/15/22 12:57	14808-79-8	D3
5310C TOC	•	Method: SM 53 lytical Services		/					
Total Organic Carbon	45.1	mg/L	10.0	2.8	20		07/19/22 13:38	7440-44-0	
Sample: MW-13	Lab ID:	40248079004	Collected	d: 07/13/2	2 14:47	Received: 07	7/14/22 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Method: EPA 8 lytical Services							
Ethane	<0.39	ug/L	5.6	0.39	1		07/19/22 11:29	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		07/19/22 11:29	74-85-1	
Methane	<0.58	ug/L	2.8	0.58	1		07/19/22 11:29	74-82-8	
6010D MET ICP, Dissolved		Method: EPA 6 lytical Services		/					
Iron, Dissolved	92.8J	ug/L	100	29.6	1		07/19/22 17:40	7439-89-6	
8260 MSV		Method: EPA 8 lytical Services		/					
Tetrachloroethene	41.0	ug/L	1.0	0.41	1		07/15/22 14:42	127-18-4	
Trichloroethene	0.59J	ug/L	1.0	0.32	1		07/15/22 14:42	79-01-6	
√inyl chloride	<0.17	ug/L	1.0	0.17	1		07/15/22 14:42	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		07/15/22 14:42	156-59-2	
trans-1,2-Dichloroethene Surrogates	<0.53	ug/L	1.0	0.53	1		07/15/22 14:42	156-60-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		07/15/22 14:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		07/15/22 14:42	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/15/22 14:42	2037-26-5	
300.0 IC Anions	Analytical	Method: EPA 3	0.00						
	Pace Ana	lytical Services	- Green Bay	/					
Sulfate	23.1	mg/L	2.0	0.44	1		07/15/22 13:11	14808-79-8	
5310C TOC	Analytical	Method: SM 53	310C						
	Pace Ana	lytical Services	- Green Ba	/					
Total Organic Carbon	1.8	mg/L	1.0	0.28	2		07/20/22 03:35	7440 44 0	



Project: 20.0156045.02
Pace Project No.: 40248079

Date: 07/21/2022 04:41 PM

Sample: MW-17	Lab ID: 4	40248079005	Collected	d: 07/13/2	2 15:27	Received: 07	7/14/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
Methane, Ethane, Ethene GCV	Analytical N	Method: EPA 80	015B Modif	ied					
	Pace Analy	tical Services -	Green Bay	/					
Ethane	<0.39	ug/L	5.6	0.39	1		07/19/22 11:36	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		07/19/22 11:36		
Methane	<0.58	ug/L	2.8	0.58	1		07/19/22 11:36	74-82-8	
6010D MET ICP, Dissolved	Analytical N	Method: EPA 60	010D						
	Pace Analy	tical Services -	Green Bay	/					
Iron, Dissolved	<29.6	ug/L	100	29.6	1		07/19/22 17:43	7439-89-6	
8260 MSV	Analytical N	Method: EPA 82	260						
	Pace Analy	tical Services -	Green Bay	/					
Tetrachloroethene	66.2	ug/L	1.0	0.41	1		07/15/22 15:03	127-18-4	
Trichloroethene	0.57J	ug/L	1.0	0.32	1		07/15/22 15:03	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/15/22 15:03	75-01-4	
cis-1,2-Dichloroethene	< 0.47	ug/L	1.0	0.47	1		07/15/22 15:03	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		07/15/22 15:03	156-60-5	
Surrogates 4-Bromofluorobenzene (S)	100	%	70-130		1		07/15/22 15:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		07/15/22 15:03		
Toluene-d8 (S)	98	%	70-130		1		07/15/22 15:03		
300.0 IC Anions	Analytical N	Method: EPA 30	0.00						
	Pace Analy	tical Services -	Green Bay	/					
Sulfate	23.4	mg/L	2.0	0.44	1		07/15/22 13:26	14808-79-8	
5310C TOC	Analytical N	Method: SM 53	10C						
	Pace Analy	tical Services -	Green Bay	/					
Total Organic Carbon	2.2	mg/L	0.50	0.14	1		07/19/22 14:10	7440-44-0	
Sample: TRIP	Lab ID: 4	40248079006	Collected	d: 07/13/2	2 00:00	Received: 07	7/14/22 08:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
- I didifictors						Ticpaicu	— — —		
8260 MSV	-	Method: EPA 82							
	Pace Analy	tical Services -	Green Bay	/					
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		07/15/22 13:40	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		07/15/22 13:40	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/15/22 13:40		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		07/15/22 13:40		
trans-1,2-Dichloroethene Surrogates	<0.53	ug/L	1.0	0.53	1		07/15/22 13:40	156-60-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		07/15/22 13:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		07/15/22 13:40		
` '	98	%	70-130		1		07/15/22 13:40		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02 Pace Project No.: 40248079

Date: 07/21/2022 04:41 PM

QC Batch: 421128 Analysis Method: EPA 8015B Modified

QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

METHOD BLANK: 2425640 Matrix: Water

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	07/19/22 10:08	
Ethene	ug/L	<0.25	5.0	07/19/22 10:08	
Methane	ug/L	<0.58	2.8	07/19/22 10:08	

LABORATORY CONTROL SAMPLE & LCSD: 2425641 2425642										
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Ethane	ug/L	53.6	53.6	52.2	100	97	74-120	3	20	
Ethene	ug/L	50	49.9	48.4	100	97	71-122	3	20	
Methane	ug/L	28.6	29.5	28.9	103	101	73-120	2	20	

MATRIX SPIKE & MATRIX SP	PIKE DUPL	ICATE: 2425	937		2425938							
			MS	MSD								
		40248079002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	50.4	52.0	94	97	70-120	3	20	
Ethene	ug/L	<0.25	50	50	46.9	48.3	94	97	68-122	3	20	
Methane	ug/L	<0.58	28.6	28.6	28.2	29.2	99	102	10-200	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: 20.0156045.02 Pace Project No.: 40248079

QC Batch: 421216 Analysis Method: EPA 6010D

QC Batch Method: EPA 6010D Analysis Description: ICP Metals, Trace, Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

METHOD BLANK: 2426056 Matrix: Water

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Iron, Dissolved ug/L <29.6 100 07/19/22 16:59

LABORATORY CONTROL SAMPLE: 2426057

Date: 07/21/2022 04:41 PM

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Iron, Dissolved ug/L 10000 10500 105 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2426058 2426059

MS MSD

40248077001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Conc. Limits Iron, Dissolved 10400 10300 104 20 ug/L <29.6 10000 10000 103 75-125

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 20.0156045.02 Pace Project No.: 40248079

Date: 07/21/2022 04:41 PM

QC Batch: 420872 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005, 40248079006

METHOD BLANK: 2424053 Matrix: Water

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005, 40248079006

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	07/15/22 08:18	
Tetrachloroethene	ug/L	<0.41	1.0	07/15/22 08:18	
trans-1,2-Dichloroethene	ug/L	< 0.53	1.0	07/15/22 08:18	
Trichloroethene	ug/L	< 0.32	1.0	07/15/22 08:18	
Vinyl chloride	ug/L	<0.17	1.0	07/15/22 08:18	
1,2-Dichlorobenzene-d4 (S)	%	107	70-130	07/15/22 08:18	
4-Bromofluorobenzene (S)	%	103	70-130	07/15/22 08:18	
Toluene-d8 (S)	%	97	70-130	07/15/22 08:18	

LABORATORY CONTROL SAMPLE:	2424054					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	52.8	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	70-130	
Trichloroethene	ug/L	50	54.4	109	70-130	
/inyl chloride	ug/L	50	47.1	94	63-134	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Гoluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 2425	273		2425274							
			MS	MSD								
	4	0248079002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
cis-1,2-Dichloroethene	ug/L	1.9	50	50	49.0	49.3	94	95	70-130	1	20	
Tetrachloroethene	ug/L	66.3	50	50	123	120	114	108	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	< 0.53	50	50	50.4	51.6	101	103	70-130	2	20	
Trichloroethene	ug/L	2.2	50	50	56.2	57.2	108	110	70-130	2	20	
Vinyl chloride	ug/L	<0.17	50	50	47.3	48.4	95	97	60-137	2	20	
1,2-Dichlorobenzene-d4 (S)	%						101	98	70-130			
4-Bromofluorobenzene (S)	%						104	105	70-130			
Toluene-d8 (S)	%						100	99	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 20.0156045.02 Pace Project No.: 40248079

QC Batch: 420917 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

METHOD BLANK: 2424382 Matrix: Water

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Sulfate mg/L <0.44 2.0 07/15/22 11:31

LABORATORY CONTROL SAMPLE: 2424383

Date: 07/21/2022 04:41 PM

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Sulfate 20 19.5 97 90-110 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2424384 2424385

MS MSD

40248079001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Result % Rec % Rec **RPD** RPD Result Conc. Conc. Limits Qual 104 Sulfate mg/L <2.2 100 100 105 111 110 90-110 5 15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2424386 2424387

MS MSD

40248091001 MS MSD MS MSD Spike Spike % Rec Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Sulfate 200 162 200 353 373 96 106 6 15 mg/L 90-110

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 20.0156045.02 Pace Project No.: 40248079

QC Batch: 420978 Analysis Method: SM 5310C

QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

METHOD BLANK: 2425185 Matrix: Water

Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Organic Carbon mg/L <0.14 0.50 07/19/22 11:47

LABORATORY CONTROL SAMPLE: 2425186

Date: 07/21/2022 04:41 PM

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Total Organic Carbon mg/L 12.5 12.2 98 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425187 2425188

MS MSD

40248178008 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Result Conc. Limits Qual

Total Organic Carbon mg/L 6.0 6 6 11.9 11.9 97 97 80-120 0 10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425189 2425190

MS MSD

40248178015 MS MSD MS MSD Spike Spike % Rec Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Total Organic Carbon 2.8 6 6 8.7 8.7 98 99 80-120 0 10 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 20.0156045.02 Pace Project No.: 40248079

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 07/21/2022 04:41 PM

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.02 Pace Project No.: 40248079

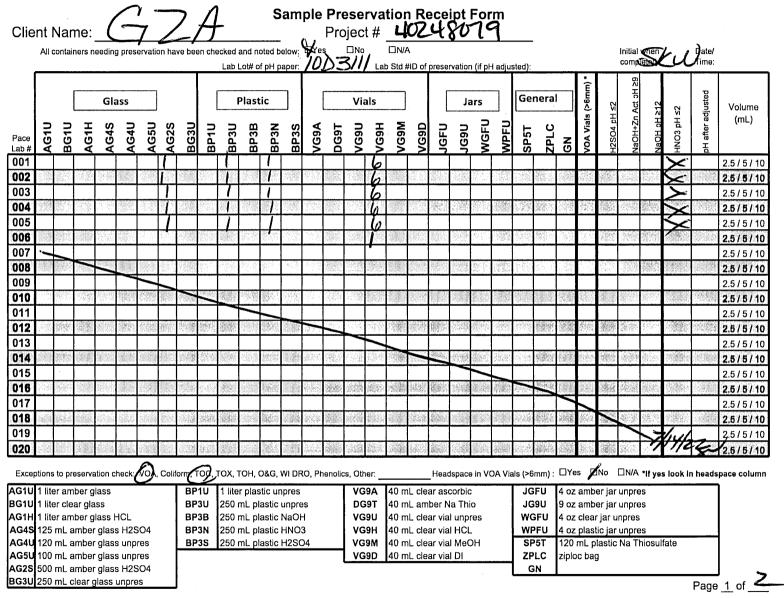
Date: 07/21/2022 04:41 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40248079001	MW-6	EPA 8015B Modified	421128		
40248079002	MW-7	EPA 8015B Modified	421128		
40248079003	MW-1	EPA 8015B Modified	421128		
40248079004	MW-13	EPA 8015B Modified	421128		
40248079005	MW-17	EPA 8015B Modified	421128		
40248079001	MW-6	EPA 6010D	421216		
40248079002	MW-7	EPA 6010D	421216		
40248079003	MW-1	EPA 6010D	421216		
40248079004	MW-13	EPA 6010D	421216		
40248079005	MW-17	EPA 6010D	421216		
10248079001	MW-6	EPA 8260	420872		
40248079002	MW-7	EPA 8260	420872		
10248079003	MW-1	EPA 8260	420872		
40248079004	MW-13	EPA 8260	420872		
40248079005	MW-17	EPA 8260	420872		
40248079006	TRIP	EPA 8260	420872		
10248079001	MW-6	EPA 300.0	420917		
40248079002	MW-7	EPA 300.0	420917		
40248079003	MW-1	EPA 300.0	420917		
40248079004	MW-13	EPA 300.0	420917		
40248079005	MW-17	EPA 300.0	420917		
10248079001	MW-6	SM 5310C	420978		
40248079002	MW-7	SM 5310C	420978		
10248079003	MW-1	SM 5310C	420978		
40248079004	MW-13	SM 5310C	420978		
40248079005	MW-17	SM 5310C	420978		

	CHAIN-OF-CUSTODY Analytical Request Document ce Analytical* Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields			t	LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here							그 회사 사람들은 사람들이 되었다. 그 그 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
Chain-of-Custody		T - Complete all rele	event fields									
company: GZA GeoEnvironmental Inc	Billing Information:							ALL SI	IADED	AREAS	are for LA	AB USE ONLY
Address: 17975 W Sarah Lane	SAME	· -			3 2	c 3 2		r Preservat	ve Type **		Lab Proje	ct Manager:
Report To: Shery Stephenson	Email To:			7	** Prese	rvative 1	ypes: (1					sodium hydroxide, (5) zinc acetate,
Copy To: NA	Site Collection Info/A	ddress:	*					, (D) TSP, (U)				bic acid, (B) ammonium sulfate,
Customer Project Name/Number:	State: County/Ci	ty: Time Zone	Collected:			12460	sci .	Analyses		35.555	Lab Profil	e/Line: ample Receipt Checklist:
20-0156045-02	ખા /	[]PT[]	MT 匂 CT [] ET	١,	\downarrow						
Phone: 262 202 1716 Site/Facility ID#: Email: Sheryl. Skephenson		Compliance Monit	_			Tres					Collec	dy Seals Present/Index Y N NA dy Signatures Present Y N NA stor Signature Present Y N NA es Intact Y N NA
Collected By print) 922. Can Purchase Order #: Shend Skylenson Quote #:		DW PWS ID #: DW Location Code			10	$ \mathcal{Z} $					1 8 8 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·
Collected By (signature): Turnaround Date Require	ed:	Immediately Pack				7					Sample VOA -	cient Volume y N NA cient Volume y N NA es Received by Ice y N NA Headspice Acceptable y N NA Regulated Soile
Mormal T	AT	Yes []				2						Regulated Soils Y N NA
Sample Disposal: Rush: [] Dispose as appropriate [] Return [] Same Day	Next Day	Field Filtered (if a				Than		1000			Reside Cl St	nal Chlorine Present Y N NA
[] Archive: [] 2 Day [] 3 Day	[] 4 Day [] 5 Day					\Im					Sample pH St	pH Acceptable Y N NA
* Matrix Codes (Insert in Matrix box below): Drinking Water					\J\ .	넴	100	1/9			Sulfic	de Present Y N NA Acetate Strips:
Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Ti					1 VOC	۶ اڅ	%H					SE ONLY:
Customer Sample ID Matrix * Comp / Grab	Collected (or Composite Start)	Composite End	CI	# of Ctns		Methan	2 5 3 5	13				ample # / Comments:
mw-6 GN G	7/13/24 1109	Date Time	<u> </u>	9	X X	$\langle \downarrow \rangle$	4~				.	1001
MW-7 GW G	7/13/22 1319			~	$\frac{1}{2}$	$\stackrel{\cdot}{\sim}$	霥					001 017
mw-1 GW C	7/13/22 1357			9 3	Ź۲	; ; ;				35.55		<u> </u>
mw-13 GW G	7/13/22 1447				$\overline{\mathbf{x}}$						New anglesie	004
MW-17 GW G	7/13/22 1527			9 2	ΧŹ			X	1000			005
TRIP W				1	\times				1000	d days	44400	006
					12.12			1436			2.43	
						A-Koges Mark						
										200		
Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used:	Wet Blue	Dry Non	e	 	HORT F	HOLDS F	RESENT (<:	2 hours)	Y N	N/A	Lab Sample Temperature Info:
estations remains, special containing, ressiste nazuras.	Packing Material Use				100 at 1	ab Trac		1.237	3252			Temp Blank Received: Y N NA Therm ID#:
	Radchem sample(s) s	creened (>500 com). V N	N/A	S		receive	d via:				Cooler 1 Temp Upon Receipt:oC Cooler 1 Therm Corr. Factor:oC
Relinquished by/Company: (Signature) Date		The second secon						JPS Clie	17.00	A COLOR OF STREET	ce Courier	Cooler 1 Corrected Temp:oC
	^{e/Time:} 1800 113/22	Received by/Comp		re)			e/Time: - 1 _{13/}	180 22	Table !		JOE UNLY	Collineits.
	14/2 0800	Received by/Comp	-	re) f	ne	$\overline{}$	e/Time:		Acctnu	ate:		Trip Blank Received: Y N NA HCL MeOH TSP Other
Relinquished by/Company: (Signature)		Received by/Comp	any: Signatur	re)		Date	e/Time:		Prelogi PM: PB:			Non Conformance(s): Page: Flage 17 o

DC#_Title: ENV-FRM-GBAY-0035 v01_Sample Preservation Receipt Form

Revision: 3 | Effective Date: | Issued by: Green Bay



Qualtrax Document ID: 41307

Pace Analytical Services, LLC

DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR Revision: 3 | Effective Date: | Issued by: Green Bay

Sample Condition Upon Receipt Form (SCUR) Project #: WO#:40248079 **Client Name:** Courier: CS Logistics Fed Ex Speedee UPS Waltco Client Pace Other: Tracking #: Custody Seal on Cooler/Box Present: yes no Seals intact: yes no Custody Seal on Samples Present: yes no Seals intact: ☐ yes ☐ no Packing Material: None Debut Bubble Bags None Other Type of Ice: We Blue Dry None Thermometer Used Samples on ice, cooling process has begun Person examining contents: Cooler Temperature Biological Tissue is Frozen: yes no Temp Blank Present: **X** yes □ no Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry Ice Yes □No □N/A Chain of Custody Present: ¥ Yes □No □n/a Chain of Custody Filled Out: Chain of Custody Relinquished: AYes □No □N/A Sampler Name & Signature on COC: ∭Yes □No □n/a **Ø**Yes □No Samples Arrived within Hold Time: - VOA Samples frozen upon receipt □Yes □No Date/Time: □Yes **Ü**No Short Hold Time Analysis (<72hr): □Yes BNo Rush Turn Around Time Requested: Sufficient Volume: 8. For Analysis: Hes ONo MS/MSD: DYes Tho DN/A Yes No Correct Containers Used: ØYes □No □n/a -Pace Containers Used: □Yes □No ØN/A -Pace IR Containers Used: Containers Intact: ØYes □No ØYes □No □N/A Filtered volume received for Dissolved tests 11. ÚYes □No □n/a Sample Labels match COC: 12. -Includes date/time/ID/Analysis Matrix: Trip Blank Present: ZYes □No □N/A 13. **Z**Yes □No □n/a Trip Blank Custody Seals Present Pace Trip Blank Lot # (if purchased) Client Notification/ Resolution: If checked, see attached form for additional comments Person Contacted: Date/Time: Comments/ Resolution: PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Qualtrax Document ID: 41292

Pace Analytical Services, LLC





August 22, 2022

Sheryl Stephenson GZA GeoEnvironmental 17975 West Sarah Lane Suite 100 Brookfield, WI 53045

RE: Project: 20.0156045.02 Pace Project No.: 40249849

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

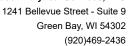
Christopher Hyska christopher.hyska@pacelabs.com (920)469-2436

Chushpher Hyska

Project Manager

Enclosures







CERTIFICATIONS

Project: 20.0156045.02 Pace Project No.: 40249849

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project: 20.0156045.02 Pace Project No.: 40249849

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40249849001	MW-1	Water	08/12/22 09:10	08/13/22 08:45
40249849002	MW-6	Water	08/12/22 10:16	08/13/22 08:45
40249849003	MW-7	Water	08/12/22 10:55	08/13/22 08:45
40249849004	MW-13	Water	08/12/22 11:45	08/13/22 08:45
40249849005	MW-17	Water	08/12/22 12:24	08/13/22 08:45
40249849006	TRIP	Water	08/12/22 00:00	08/13/22 08:45



SAMPLE ANALYTE COUNT

Project: 20.0156045.02 Pace Project No.: 40249849

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40249849001	MW-1	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849002	MW-6	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	НМВ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849003	MW-7	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	НМВ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849004	MW-13	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	НМВ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849005	MW-17	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849006	TRIP	EPA 8260	SMT	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 20.0156045.02 Pace Project No.: 40249849

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10249849001	MW-1					
EPA 8015B Modified	Methane	37.1	ug/L	2.8	08/18/22 10:02	
EPA 6010D	Iron, Dissolved	6310	ug/L	100	08/16/22 23:38	
EPA 8260	Tetrachloroethene	11.3	ug/L	1.0	08/15/22 15:54	
EPA 8260	cis-1,2-Dichloroethene	2.2	ug/L	1.0	08/15/22 15:54	
EPA 300.0	Sulfate	0.85J	mg/L	2.0	08/16/22 20:42	
SM 5310C	Total Organic Carbon	22.2	mg/L	3.0	08/17/22 14:44	
0249849002	MW-6					
EPA 8015B Modified	Ethane	1.9J	ug/L	5.6	08/18/22 10:09	
EPA 8015B Modified	Ethene	2.1J	ug/L	5.0	08/18/22 10:09	
EPA 8015B Modified	Methane	11.5	ug/L	2.8	08/18/22 10:09	
EPA 6010D	Iron, Dissolved	40800	ug/L	100	08/16/22 23:41	
EPA 8260	Tetrachloroethene	15.6	ug/L	1.0	08/15/22 16:14	
EPA 8260	Trichloroethene	1.8	ug/L	1.0	08/15/22 16:14	
EPA 8260	Vinyl chloride	13.3	ug/L	1.0	08/15/22 16:14	
EPA 8260	cis-1,2-Dichloroethene	219	ug/L	1.0	08/15/22 16:14	
EPA 8260	trans-1,2-Dichloroethene	0.64J	ug/L	1.0	08/15/22 16:14	
SM 5310C	Total Organic Carbon	314	mg/L	50.0	08/17/22 15:00	
10249849003	MW-7					
EPA 8015B Modified	Methane	4.1	ug/L	2.8	08/18/22 10:16	
EPA 6010D	Iron, Dissolved	1690	ug/L	100	08/16/22 23:43	
EPA 8260	Tetrachloroethene	31.2	ug/L	1.0	08/15/22 16:34	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	08/15/22 16:34	
EPA 8260	cis-1,2-Dichloroethene	9.7	ug/L	1.0	08/15/22 16:34	
EPA 300.0	Sulfate	13.0	mg/L	2.0	08/16/22 21:11	
SM 5310C	Total Organic Carbon	4.3	mg/L	0.50	08/17/22 15:16	
0249849004	MW-13					
EPA 8260	Tetrachloroethene	34.5	ug/L	1.0	08/15/22 16:53	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	08/15/22 16:53	
EPA 8260	cis-1,2-Dichloroethene	15.1	ug/L	1.0	08/15/22 16:53	
EPA 300.0	Sulfate	11.0	mg/L	2.0	08/16/22 21:25	
SM 5310C	Total Organic Carbon	2.2	mg/L	0.50	08/17/22 15:33	
0249849005	MW-17					
EPA 6010D	Iron, Dissolved	565	ug/L	100	08/16/22 23:53	
EPA 8260	Tetrachloroethene	67.6	ug/L	1.0	08/15/22 17:13	
EPA 8260	Trichloroethene	0.61J	ug/L	1.0	08/15/22 17:13	
EPA 300.0	Sulfate	21.8	mg/L	2.0	08/16/22 21:40	
SM 5310C	Total Organic Carbon	5.3	mg/L	0.50	08/17/22 15:50	



Project: 20.0156045.02 Pace Project No.: 40249849

Date: 08/22/2022 04:56 PM

Methane, Ethane GCV	Sample: MW-1	Lab ID:	40249849001	Collected	: 08/12/22	09:10	Received: 08	/13/22 08:45 Ma	atrix: Water	
Pace Analytical Services - Green Bay	Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Pace Analytical Services - Green Bay	Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifie	ed					
Ethene Methane 37.1 ug/L 5.0 0.25 1 08/18/22 10:02 74-85-1 Methane 37.1 ug/L 2.8 0.58 1 08/18/22 10:02 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay Iron, Dissolved 6310 ug/L 100 56.7 1 08/15/22 06:31 08/16/22 23:38 7439-89-6 8260 MSV Analytical Method: EPA 8260 Pace Analytical Services - Green Bay Tetrachloroethene 11.3 ug/L 1.0 0.41 1 08/15/22 15:54 127-18-4 Trichloroethene 40.32 ug/L 1.0 0.32 1 08/15/22 15:54 79-01-6 Vinyl chloride 40.17 ug/L 1.0 0.32 1 08/15/22 15:54 75-01-4 cis-1,2-Dichloroethene 2.2 ug/L 1.0 0.47 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 40.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 40.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 40.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 50.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 60.5 96 % 70-130 1 08/15/22 15:54 120-55 Surrogates 46-Fromofluorobenzene (S) 96 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8	,,	•								
Ethene Methane 37.1 ug/L 5.0 0.25 1 08/18/22 10:02 74-85-1 Methane 37.1 ug/L 2.8 0.58 1 08/18/22 10:02 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay Iron, Dissolved 6310 ug/L 100 56.7 1 08/15/22 06:31 08/16/22 23:38 7439-89-6 8260 MSV Analytical Method: EPA 8260 Pace Analytical Services - Green Bay Tetrachloroethene 11.3 ug/L 1.0 0.41 1 08/15/22 15:54 127-18-4 Trichloroethene 40.32 ug/L 1.0 0.32 1 08/15/22 15:54 79-01-6 Vinyl chloride 40.17 ug/L 1.0 0.32 1 08/15/22 15:54 75-01-4 cis-1,2-Dichloroethene 2.2 ug/L 1.0 0.47 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 40.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 40.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 40.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 50.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-69-2 trans-1,2-Dichloroethene 60.5 96 % 70-130 1 08/15/22 15:54 120-55 Surrogates 46-Fromofluorobenzene (S) 96 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8 (S) 105 % 70-130 1 08/15/22 10-09 74-80-5 Toluene-d8	Ethane	<0.39	ua/l	5.6	0.39	1		08/18/22 10:02	74-84-0	
Methane 37.1			•							
Pace Analytical Services - Green Bay	Methane	37.1	•	2.8	0.58	1		08/18/22 10:02	74-82-8	
Pace Analytical Services - Green Bay	6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D Prepa	ration Met	hod: EF	PA 3010A			
Analytical Method: EPA 8260 Pace Analytical Method: EPA 8260 Pace Analytical Services - Green Bay	,	-								
Pace Analytical Services - Green Bay	Iron, Dissolved	6310	ug/L	100	56.7	1	08/15/22 06:31	08/16/22 23:38	7439-89-6	
Tetrachloroethene	8260 MSV	Analytical	Method: EPA 8	260						
Trichloroethene -0.32 ug/L 1.0 0.32 1 08/15/22 15:54 79-01-6 Vinyl chloride -0.17 ug/L 1.0 0.17 1 08/15/22 15:54 75-01-4 cis-1,2-Dichloroethene -0.53 ug/L 1.0 0.47 1 08/15/22 15:54 156-59-2 trans-1,2-Dichloroethene -0.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-59-2 trans-1,2-Dichloroethene -0.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-59-2 trans-1,2-Dichloroethene -0.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-59-2 trans-1,2-Dichloroethene -0.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-60-5		-								
Trichloroethene -0.32 ug/L 1.0 0.32 1 08/15/22 15:54 79-01-6 Vinyl chloride -0.17 ug/L 1.0 0.17 1 08/15/22 15:54 75-01-4 cis-1,2-Dichloroethene -0.53 ug/L 1.0 0.47 1 08/15/22 15:54 156-59-2 trans-1,2-Dichloroethene -0.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-59-2 trans-1,2-Dichloroethene -0.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-59-2 trans-1,2-Dichloroethene -0.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-59-2 trans-1,2-Dichloroethene -0.53 ug/L 1.0 0.53 1 08/15/22 15:54 156-60-5	Tetrachloroethene	11.3	ug/L	1.0	0.41	1		08/15/22 15:54	127-18-4	
cis-1,2-Dichloroethene 2.2 ug/L 1.0 0.47 1 08/15/22 15:54 156-59-2 trans-1,2-Dichloroethene 4-Dichloroethene	Trichloroethene	< 0.32	ug/L	1.0	0.32	1		08/15/22 15:54	79-01-6	
trans-1,2-Dichloroethene	Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/15/22 15:54	75-01-4	
## A complete Surrogates Su	cis-1,2-Dichloroethene	2.2	ug/L	1.0	0.47	1		08/15/22 15:54	156-59-2	
4-Bromofluorobenzene (S) 96 % 70-130 1 08/15/22 15:54 460-00-4 1,2-Dichlorobenzene-d4 (S) 96 % 70-130 1 08/15/22 15:54 2199-69-1 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 300.0 IC Anions Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay Sulfate 0.85 J mg/L 2.0 0.44 1 08/16/22 20:42 14808-79-8 5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Green Bay Total Organic Carbon 22.2 mg/L 3.0 0.83 6 08/17/22 14:44 7440-44-0 Sample: MW-6 Lab ID: 40249849002 Collected: 08/12/22 10:16 Received: 08/13/22 08:45 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane 1.9J ug/L 5.6 0.39 1 08/18/22 10:09 74-84-0 Ethane 2.1J ug/L 5.0 0.25 1 08/18/22 10:09 74-85-1 Methane 11.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	•	<0.53	ug/L	1.0	0.53	1		08/15/22 15:54	156-60-5	
1,2-Dichlorobenzene-d4 (S) 96 % 70-130 1 08/15/22 15:54 2199-69-1 Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 300.0 IC Anions	•	96	%	70-130		1		08/15/22 15:54	460-00-4	
Toluene-d8 (S) 105 % 70-130 1 08/15/22 15:54 2037-26-5 300.0 IC Anions Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay Sulfate 0.85J mg/L 2.0 0.44 1 08/16/22 20:42 14808-79-8 5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Green Bay Total Organic Carbon 22.2 mg/L 3.0 0.83 6 08/17/22 14:44 7440-44-0 Sample: MW-6 Lab ID: 40249849002 Collected: 08/12/22 10:16 Received: 08/13/22 08:45 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane 1.9J ug/L 5.6 0.39 1 08/18/22 10:09 74-84-0 Ethene 2.1J ug/L 5.0 0.25 1 08/18/22 10:09 74-85-1 Methane I1.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay										
Pace Analytical Services - Green Bay										
Sulfate	300.0 IC Anions	Analytical	Method: EPA 3	0.00						
5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Green Bay Total Organic Carbon 22.2 mg/L 3.0 0.83 6 08/17/22 14:44 7440-44-0 Sample: MW-6 Lab ID: 40249849002 Collected: 08/12/22 10:16 Received: 08/13/22 08:45 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethane GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane 1.9J ug/L 5.6 0.39 1 08/18/22 10:09 74-84-0 Ethene 2.1J ug/L 5.0 0.25 1 08/18/22 10:09 74-85-1 Methane 11.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay		Pace Anal	lytical Services	- Green Bay						
Pace Analytical Services - Green Bay	Sulfate	0.85J	mg/L	2.0	0.44	1		08/16/22 20:42	14808-79-8	
Pace Analytical Services - Green Bay	5310C TOC	Analytical	Method: SM 53	310C						
Sample: MW-6 Lab ID: 40249849002 Collected: 08/12/22 10:16 Received: 08/13/22 08:45 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Prepared Analytical Services - Green Bay Ethane 1.9J ug/L 5.6 0.39 1 08/18/22 10:09 74-84-0 Ethene 2.1J ug/L 5.0 0.25 1 08/18/22 10:09 74-85-1 Methane 11.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay		=								
Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual Methane, Ethane, Ethane, Ethane Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane 1.9J ug/L 5.6 0.39 1 08/18/22 10:09 74-84-0 Ethene 2.1J ug/L 5.0 0.25 1 08/18/22 10:09 74-85-1 Methane 11.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	Total Organic Carbon	22.2	mg/L	3.0	0.83	6		08/17/22 14:44	7440-44-0	
Methane, Ethane, Ethane GCV Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay Ethane 1.9J ug/L 5.6 0.39 1 08/18/22 10:09 74-84-0 Ethene 2.1J ug/L 5.0 0.25 1 08/18/22 10:09 74-85-1 Methane 11.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	Sample: MW-6	Lab ID:	40249849002	Collected	: 08/12/22	10:16	Received: 08	/13/22 08:45 Ma	atrix: Water	
Pace Analytical Services - Green Bay Ethane 1.9J ug/L 5.6 0.39 1 08/18/22 10:09 74-84-0 Ethene 2.1J ug/L 5.0 0.25 1 08/18/22 10:09 74-85-1 Methane 11.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Pace Analytical Services - Green Bay Ethane 1.9J ug/L 5.6 0.39 1 08/18/22 10:09 74-84-0 Ethene 2.1J ug/L 5.0 0.25 1 08/18/22 10:09 74-85-1 Methane 11.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	Methane, Ethane, Ethene GCV	Analytical	Method: EPA 8	015B Modifie	ed					
Ethene 2.1J ug/L 5.0 0.25 1 08/18/22 10:09 74-85-1 Methane 11.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	, ,	•								
Methane 11.5 ug/L 2.8 0.58 1 08/18/22 10:09 74-82-8 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	Ethane	1.9J	ug/L	5.6	0.39	1		08/18/22 10:09	74-84-0	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay	Ethene	2.1J	ug/L	5.0	0.25	1		08/18/22 10:09	74-85-1	
Pace Analytical Services - Green Bay	Methane	11.5	ug/L	2.8	0.58	1		08/18/22 10:09	74-82-8	
	6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D Prepa	ration Met	hod: EF	PA 3010A			
Iron, Dissolved 40800 ug/L 100 56.7 1 08/15/22 06:31 08/16/22 23:41 7439-89-6		Pace Anal	lytical Services	- Green Bay						
	Iron, Dissolved	40800	ug/L	100	56.7	1	08/15/22 06:31	08/16/22 23:41	7439-89-6	



Project: 20.0156045.02
Pace Project No.: 40249849

Date: 08/22/2022 04:56 PM

Sample: MW-6	Lab ID:	40249849002	Collected	d: 08/12/22	10:16	Received: 08/	13/22 08:45 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Anal	ytical Services	Green Bay	/					
Tetrachloroethene	15.6	ug/L	1.0	0.41	1		08/15/22 16:14	127-18-4	
Trichloroethene	1.8	ug/L	1.0	0.32	1		08/15/22 16:14		
Vinyl chloride	13.3	ug/L	1.0	0.17	1		08/15/22 16:14		
cis-1,2-Dichloroethene	219	ug/L	1.0	0.47	1		08/15/22 16:14	156-59-2	
trans-1,2-Dichloroethene	0.64J	ug/L	1.0	0.53	1		08/15/22 16:14	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/15/22 16:14		
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		08/15/22 16:14		
Toluene-d8 (S)	104	%	70-130		1		08/15/22 16:14	2037-26-5	
300.0 IC Anions	•	Method: EPA 30 ytical Services		,					
		•	•	•					
Sulfate	<2.2	mg/L	10.0	2.2	5		08/16/22 20:56	14808-79-8	D3
5310C TOC	•	Method: SM 53 ytical Services		/					
Total Organic Carbon	314	mg/L	50.0	, 13.8	100		08/17/22 15:00	7440-44-0	
Sample: MW-7	I ah ID:	40249849003	Collected	1· 08/12/23	10.55	Received: 08/	13/22 08·45 M	atriv: Water	
Sample: MW-7	Lab ID:	40249849003	Collected	d: 08/12/22	2 10:55	Received: 08/	13/22 08:45 Ma	atrix: Water	
Sample: MW-7 Parameters	Lab ID:	40249849003 Units	Collected	d: 08/12/22	2 10:55 DF	Received: 08/	13/22 08:45 Ma	cAS No.	Qual
Parameters	Results Analytical		LOQ D15B Modif	LOD ·					Qual
Parameters Methane, Ethane, Ethene GCV	Results Analytical Pace Anal	Units Method: EPA 80 ytical Services	LOQ	LOD ied	DF		Analyzed	CAS No.	Qual
Parameters Methane, Ethane, Ethene GCV Ethane	Results Analytical Pace Anal <0.39	Units Method: EPA 80 ytical Services -	LOQ 015B Modif Green Bay 5.6	LOD ied /	DF 1		Analyzed 08/18/22 10:16	CAS No.	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene	Results Analytical Pace Anal	Units Method: EPA 80 ytical Services	LOQ	LOD ied	DF		Analyzed	CAS No. 74-84-0 74-85-1	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane	Analytical Pace Anal <0.39 <0.25 4.1	Units Method: EPA 80 ytical Services 0 ug/L ug/L ug/L ug/L	D15B Modif Green Bay 5.6 5.0 2.8	LOD	DF 1 1 1 1 1	Prepared	Analyzed 08/18/22 10:16 08/18/22 10:16	CAS No. 74-84-0 74-85-1	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane	Analytical Pace Anal <0.39 <0.25 4.1 Analytical	Units Method: EPA 86 ytical Services ug/L ug/L ug/L ug/L Ug/L	LOQ 015B Modif Green Bay 5.6 5.0 2.8 010D Prep	LOD	DF 1 1 1 1 1	Prepared	Analyzed 08/18/22 10:16 08/18/22 10:16	CAS No. 74-84-0 74-85-1	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved	Analytical Pace Anal <0.39 <0.25 4.1 Analytical	Units Method: EPA 80 ytical Services 0 ug/L ug/L ug/L ug/L	LOQ 015B Modif Green Bay 5.6 5.0 2.8 010D Prep	LOD	DF 1 1 1 1 1	Prepared	Analyzed 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16	74-84-0 74-85-1 74-82-8	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved	Analytical Pace Anal <0.39 <0.25 4.1 Analytical Pace Anal	Units Method: EPA 86 ytical Services ug/L ug/L ug/L Method: EPA 66 ytical Services ug/L	LOQ — — — — — — — — — — — — — — — — — — —	LOD	1 1 1 hod: EF	Prepared PA 3010A	Analyzed 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16	74-84-0 74-85-1 74-82-8	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved	Analytical Pace Anal <0.39 <0.25 4.1 Analytical Pace Anal 1690 Analytical	Units Method: EPA 80 ytical Services ug/L ug/L ug/L Ug/L Method: EPA 60 ytical Services	LOQ 015B Modif Green Bay 5.6 5.0 2.8 010D Prep Green Bay 100	LOD ied 0.39 0.25 0.58 aration Met	1 1 1 hod: EF	Prepared PA 3010A	Analyzed 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16	74-84-0 74-85-1 74-82-8	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV	Analytical Pace Anal <0.39 <0.25 4.1 Analytical Pace Anal 1690 Analytical	Units Method: EPA 88 ytical Services ug/L ug/L ug/L Method: EPA 66 ytical Services ug/L Method: EPA 88	LOQ 015B Modif Green Bay 5.6 5.0 2.8 010D Prep Green Bay 100	LOD ied 0.39 0.25 0.58 aration Met	1 1 1 hod: EF	Prepared PA 3010A	Analyzed 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16	74-84-0 74-85-1 74-82-8 7439-89-6	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene	Analytical Pace Anal <0.39 <0.25 4.1 Analytical Pace Anal 1690 Analytical Pace Anal	Units Method: EPA 86 ytical Services 4 ug/L ug/L Method: EPA 66 ytical Services 4 ug/L Method: EPA 85 ytical Services 4 ytical Services 5 ytical Services 5 ytical Services 6 ytical Services	LOQ D15B Modification 5.6 5.0 2.8 D10D Prepication Green Bay 100 260 Green Bay	LOD ied 0.39 0.25 0.58 aration Met	DF 1 1 1 hod: EF	Prepared PA 3010A	Analyzed 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16 08/16/22 23:43	74-84-0 74-85-1 74-82-8 7439-89-6	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride	Analytical Pace Anal <0.39 <0.25 4.1 Analytical Pace Anal 1690 Analytical Pace Anal 31.2	Units Method: EPA 8/ ytical Services - ug/L ug/L Method: EPA 6/ ytical Services - ug/L Method: EPA 8/ ytical Services - ug/L ug/L ug/L ug/L ug/L	LOQ	LOD ied 0.39 0.25 0.58 aration Met 56.7	DF 1 1 1 hod: EF 1	Prepared PA 3010A	Analyzed 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16 08/16/22 23:43	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride	Analytical Pace Anal <0.39 <0.25 4.1 Analytical Pace Anal 1690 Analytical Pace Anal 21.6	Units Method: EPA 8/ ytical Services - ug/L ug/L Method: EPA 6/ ytical Services - ug/L Method: EPA 8/ ytical Services - ug/L ug/L ug/L	LOQ – D15B Modification of the control of the contr	LOD ied 0.39 0.25 0.58 aration Met 56.7	DF 1 1 1 hod: EF 1 1	Prepared PA 3010A	Analyzed 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16 08/16/22 23:43 08/15/22 16:34 08/15/22 16:34	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene	Analytical Pace Anal <0.39 <0.25 4.1 Analytical Pace Anal 1690 Analytical Pace Anal 21.2 1.6 <0.17	Units Method: EPA 8/ ytical Services - ug/L ug/L Method: EPA 6/ ytical Services - ug/L Method: EPA 8/ ytical Services - ug/L ug/L ug/L ug/L ug/L	LOQ — — — — — — — — — — — — — — — — — — —	LOD ied 0.39 0.25 0.58 aration Met 56.7 0.41 0.32 0.17	DF 1 1 1 hod: EF 1 1 1 1 1 1	Prepared PA 3010A	Analyzed 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16 08/16/22 23:43 08/15/22 16:34 08/15/22 16:34 08/15/22 16:34	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates	Analytical Pace Anal <0.39 <0.25 4.1 Analytical Pace Anal 1690 Analytical Pace Anal 21.2 1.6 <0.17 9.7	Units Method: EPA 8/ ytical Services - ug/L ug/L Method: EPA 6/ ytical Services - ug/L Method: EPA 8/ ytical Services - ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	LOQ	LOD ied 0.39 0.25 0.58 aration Met 56.7 0.41 0.32 0.17 0.47	DF 1 1 1 hod: EF 1 1 1 1 1 1 1 1 1	Prepared PA 3010A	Analyzed 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16 08/16/22 23:43 08/15/22 16:34 08/15/22 16:34 08/15/22 16:34 08/15/22 16:34	74-84-0 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5	Qual
Parameters Methane, Ethane, Ethene GCV Ethane Ethene Methane 6010D MET ICP, Dissolved Iron, Dissolved 8260 MSV Tetrachloroethene Trichloroethene Vinyl chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	Analytical Pace Anal <0.39 <0.25 4.1 Analytical Pace Anal 1690 Analytical Pace Anal 21.6 <0.17 9.7 <0.53	Units Method: EPA 8/ ytical Services - ug/L ug/L Method: EPA 6/ ytical Services - ug/L Method: EPA 8/ ytical Services - ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	LOQ	LOD ied 0.39 0.25 0.58 aration Met 56.7 0.41 0.32 0.17 0.47	DF 1 1 1 hod: EF 1 1 1 1 1 1 1 1 1	Prepared PA 3010A	08/18/22 10:16 08/18/22 10:16 08/18/22 10:16 08/18/22 10:16 08/16/22 23:43 08/15/22 16:34 08/15/22 16:34 08/15/22 16:34 08/15/22 16:34	74-84-0 74-85-1 74-85-1 74-82-8 7439-89-6 127-18-4 79-01-6 75-01-4 156-59-2 156-60-5 460-00-4	Qual



Project: 20.0156045.02
Pace Project No.: 40249849

Date: 08/22/2022 04:56 PM

Sample: MW-7	Lab ID:	40249849003	Collected	08/12/22	2 10:55	Received: 08/	13/22 08:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	-	Method: EPA 30							
Sulfate	13.0	mg/L	2.0	0.44	1		08/16/22 21:11	14808-79-8	
5310C TOC	•	Method: SM 53							
Total Organic Carbon	4.3	mg/L	0.50	0.14	1		08/17/22 15:16	7440-44-0	
Sample: MW-13	Lab ID:	40249849004	Collected	: 08/12/22	2 11:45	Received: 08/	/13/22 08:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	-	Method: EPA 80 ytical Services							
Ethane	<0.39	ug/L	5.6	0.39	1		08/18/22 10:23	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		08/18/22 10:23	74-85-1	
Methane	<0.58	ug/L	2.8	0.58	1		08/18/22 10:23	74-82-8	
6010D MET ICP, Dissolved	-	Method: EPA 60 ytical Services			hod: EF	PA 3010A			
Iron, Dissolved	<56.7	ug/L	100	56.7	1	08/15/22 06:31	08/16/22 23:50	7439-89-6	
8260 MSV	•	Method: EPA 82 ytical Services							
Tetrachloroethene	34.5	ug/L	1.0	0.41	1		08/15/22 16:53	127-18-4	
Trichloroethene	1.6	ug/L	1.0	0.32	1		08/15/22 16:53	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/15/22 16:53		
cis-1,2-Dichloroethene	15.1	ug/L	1.0	0.47	1		08/15/22 16:53		
trans-1,2-Dichloroethene Surrogates	<0.53	ug/L	1.0	0.53	1		08/15/22 16:53	156-60-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		08/15/22 16:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		08/15/22 16:53		
Toluene-d8 (S)	104	%	70-130		1		08/15/22 16:53	2037-26-5	
300.0 IC Anions	•	Method: EPA 3							
			2.0	0.44	1		08/16/22 21:25	14808-79-8	
Sulfate	11.0	mg/L	2.0	0.44					
Sulfate 5310C TOC	Analytical	mg/L Method: SM 53 ytical Services	10C						



Project: 20.0156045.02 Pace Project No.: 40249849

Date: 08/22/2022 04:56 PM

Sample: MW-17	Lab ID:	40249849005	Collected	: 08/12/2	2 12:24	Received: 08/	/13/22 08:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
Methane, Ethane, Ethene GCV	-	Method: EPA 8							
	Pace Anal	lytical Services	- Green Bay						
Ethane	<0.39	ug/L	5.6	0.39	1		08/18/22 10:30	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		08/18/22 10:30	74-85-1	
Methane	<0.58	ug/L	2.8	0.58	1		08/18/22 10:30	74-82-8	
6010D MET ICP, Dissolved	Analytical	Method: EPA 6	010D Prepa	aration Me	hod: EF	A 3010A			
	Pace Anal	lytical Services	- Green Bay						
Iron, Dissolved	565	ug/L	100	56.7	1	08/15/22 06:31	08/16/22 23:53	7439-89-6	
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Anal	lytical Services	- Green Bay						
Tetrachloroethene	67.6	ug/L	1.0	0.41	1		08/15/22 17:13	127-18-4	
Trichloroethene	0.61J	ug/L	1.0	0.32	1		08/15/22 17:13		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/15/22 17:13		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/15/22 17:13		
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/15/22 17:13		
Surrogates		3			•				
4-Bromofluorobenzene (S)	96	%	70-130		1		08/15/22 17:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		08/15/22 17:13	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		08/15/22 17:13	2037-26-5	
300.0 IC Anions	Analytical	Method: EPA 3	0.00						
	•	lytical Services							
Sulfate	21.8	mg/L	2.0	0.44	1		08/16/22 21:40	14808-79-8	
5310C TOC	Analytical	Method: SM 53	10C						
33100 100	-	lytical Services							
Total Organic Carbon	5.3	mg/L	0.50	0.14	1		08/17/22 15:50	7440 44 0	
Total Organic Carbon	3.3	mg/L	0.30	0.14	'		00/1//22 15.50	7440-44-0	
Sample: TRIP	Lab ID:	40249849006	Collected	: 08/12/2	2 00:00	Received: 08/	/13/22 08:45 M	atrix: Water	
•									
Parameters	Results _	Units	LOQ _	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical	Method: EPA 8	260						
	Pace Anal	lytical Services	- Green Bay						
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/15/22 12:38	127-18-4	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/15/22 12:38		
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/15/22 12:38		
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/15/22 12:38		
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/15/22 12:38		
Surrogates	40.00	~ <i>5</i> / –	1.0	3.00	•		10, 10, 12 12.00	.00 00 0	
4-Bromofluorobenzene (S)	98	%	70-130		1		08/15/22 12:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		08/15/22 12:38	2199-69-1	



QUALITY CONTROL DATA

Project: 20.0156045.02 Pace Project No.: 40249849

Date: 08/22/2022 04:56 PM

QC Batch: 423770 Analysis Method: EPA 8015B Modified

QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

METHOD BLANK: 2440570 Matrix: Water

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	08/18/22 09:01	
Ethene	ug/L	<0.25	5.0	08/18/22 09:01	
Methane	ug/L	<0.58	2.8	08/18/22 09:01	

LABORATORY CONTROL SAMPLE &	LCSD: 2440571		24	140572						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Ethane	ug/L	53.6	52.3	52.0	98	97	74-120	1	20	
Ethene	ug/L	50	48.9	48.5	98	97	71-122	1	20	
Methane	ug/L	28.6	29.8	29.6	104	104	73-120	1	20	

MATRIX SPIKE & MATRIX S	PIKE DUPLI	ICATE: 2440	652		2440653							
			MS	MSD								
		40249655001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	49.4	53.0	92	99	70-120	7	20	
Ethene	ug/L	<0.25	50	50	46.6	49.8	93	100	68-122	7	20	
Methane	ug/L	<0.58	28.6	28.6	27.3	29.5	96	103	10-200	8	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: 20.0156045.02 Pace Project No.: 40249849

QC Batch: 423389 Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A Analysis Description: 6010D MET Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

METHOD BLANK: 2438815 Matrix: Water

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Iron, Dissolved ug/L <56.7 100 08/16/22 22:59

LABORATORY CONTROL SAMPLE: 2438816

Date: 08/22/2022 04:56 PM

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Iron, Dissolved ug/L 10000 10400 104 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2438817 2438818

MSD MS 40249317002 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec **RPD** RPD Qual Limits 0.099J Iron, Dissolved 10000 10600 105 20 ug/L 10000 10400 103 75-125 2 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 20.0156045.02 Pace Project No.: 40249849

Date: 08/22/2022 04:56 PM

QC Batch: 423397 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005, 40249849006

METHOD BLANK: 2438837 Matrix: Water

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005, 40249849006

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	08/15/22 10:00	
Tetrachloroethene	ug/L	<0.41	1.0	08/15/22 10:00	
trans-1,2-Dichloroethene	ug/L	< 0.53	1.0	08/15/22 10:00	
Trichloroethene	ug/L	< 0.32	1.0	08/15/22 10:00	
Vinyl chloride	ug/L	<0.17	1.0	08/15/22 10:00	
1,2-Dichlorobenzene-d4 (S)	%	95	70-130	08/15/22 10:00	
4-Bromofluorobenzene (S)	%	98	70-130	08/15/22 10:00	
Toluene-d8 (S)	%	103	70-130	08/15/22 10:00	

LABORATORY CONTROL SAMPLE:	2438838					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	53.1	106	70-130	
Tetrachloroethene	ug/L	50	52.8	106	70-130	
rans-1,2-Dichloroethene	ug/L	50	57.0	114	70-130	
richloroethene	ug/L	50	52.8	106	70-130	
inyl chloride	ug/L	50	52.9	106	63-134	
,2-Dichlorobenzene-d4 (S)	%			95	70-130	
-Bromofluorobenzene (S)	%			98	70-130	
oluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 2439	076		2439077							
			MS	MSD								
	4	0249727001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
cis-1,2-Dichloroethene	ug/L	0.78J	50	50	52.4	53.3	103	105	70-130	2	20	
Tetrachloroethene	ug/L	<0.41	50	50	51.7	52.7	103	105	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	< 0.53	50	50	56.8	56.7	114	113	70-130	0	20	
Trichloroethene	ug/L	< 0.32	50	50	53.1	53.5	106	107	70-130	1	20	
Vinyl chloride	ug/L	<0.17	50	50	53.0	53.3	106	107	60-137	1	20	
1,2-Dichlorobenzene-d4 (S)	%						94	97	70-130			
4-Bromofluorobenzene (S)	%						97	100	70-130			
Toluene-d8 (S)	%						103	105	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: 20.0156045.02 Pace Project No.: 40249849

QC Batch: 423572 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

METHOD BLANK: 2439684 Matrix: Water

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Sulfate mg/L <0.44 2.0 08/16/22 14:47

LABORATORY CONTROL SAMPLE: 2439685

Date: 08/22/2022 04:56 PM

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Sulfate 20 21.3 106 90-110 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2439686 2439687

MS MSD

40249492001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Conc. Limits 90.0 107 Sulfate mg/L 400 400 518 496 102 90-110 15

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

Max

RPD

Qual



QUALITY CONTROL DATA

Project: 20.0156045.02 Pace Project No.: 40249849

QC Batch: 423567 Analysis Method: SM 5310C

QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

METHOD BLANK: 2439642 Matrix: Water

Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Organic Carbon mg/L <0.14 0.50 08/17/22 10:36

LABORATORY CONTROL SAMPLE: 2439643

Date: 08/22/2022 04:56 PM

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Organic Carbon** 12.5 12.4 99 80-120 mg/L

Total organic dataon ing/E 12.0 12.4 00 00 12

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2439644 2439645

MSD MS 40249655001 Spike Spike MS MSD MS MSD % Rec Parameter Units Conc. Result Result % Rec % Rec **RPD** Result Conc. Limits

Total Organic Carbon mg/L 1.2 6 6 7.0 7.1 95 97 80-120 1 10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2439646 2439647

MS MSD 40249655002 MS MSD MS MSD Spike Spike % Rec Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Total Organic Carbon 0.94 6 6 6.7 95 2 6.6 97 80-120 10 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 20.0156045.02 Pace Project No.: 40249849

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 08/22/2022 04:56 PM

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.02 Pace Project No.: 40249849

Date: 08/22/2022 04:56 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40249849001	MW-1	EPA 8015B Modified	423770		
40249849002	MW-6	EPA 8015B Modified	423770		
40249849003	MW-7	EPA 8015B Modified	423770		
40249849004	MW-13	EPA 8015B Modified	423770		
40249849005	MW-17	EPA 8015B Modified	423770		
40249849001	MW-1	EPA 3010A	423389	EPA 6010D	423484
40249849002	MW-6	EPA 3010A	423389	EPA 6010D	423484
40249849003	MW-7	EPA 3010A	423389	EPA 6010D	423484
40249849004	MW-13	EPA 3010A	423389	EPA 6010D	423484
40249849005	MW-17	EPA 3010A	423389	EPA 6010D	423484
40249849001	MW-1	EPA 8260	423397		
10249849002	MW-6	EPA 8260	423397		
40249849003	MW-7	EPA 8260	423397		
40249849004	MW-13	EPA 8260	423397		
40249849005	MW-17	EPA 8260	423397		
40249849006	TRIP	EPA 8260	423397		
40249849001	MW-1	EPA 300.0	423572		
40249849002	MW-6	EPA 300.0	423572		
40249849003	MW-7	EPA 300.0	423572		
40249849004	MW-13	EPA 300.0	423572		
40249849005	MW-17	EPA 300.0	423572		
40249849001	MW-1	SM 5310C	423567		
40249849002	MW-6	SM 5310C	423567		
40249849003	MW-7	SM 5310C	423567		
40249849004	MW-13	SM 5310C	423567		
40249849005	MW-17	SM 5310C	423567		

CHAIN-OF-CUSTODY Analytical Request Document								LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here										
Pace Analytical* Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields																		
Company: C124 Cleo Environmental Inc Address: 17975 W Saigh Lane Billing Information: AP @ GZA. COM										ALL SHADED AREAS are for LAB USE ONLY Container Preservative Type ** Lab Project Manager:								
Address: 17975 W Such Lane									2	3		rainer		tive Type *	· • [4] [1	Lab Proje	ct Manager:	
Report To: Shery Stephenson Copy To:	نه م	1 Email To:							** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate,									
Copy To: U										(C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other Analyses Lab Profile/Line:							e/Line:	
Customer Project Name/Number: 20-0156045-02				County/Cit	ity: Time Zone Collected:						No.	Allalyse				ample Receipt Checklist:		
Phone: 262 202 1716 Email:	#:	1001		Compliance Monitoring? [] Yes [] No				1							Custod Collec	dy Seals Present/Intact Y N NA dy Signatures Present Y N NA ctor Signature Present Y N NA		
Collected By (print): Shey Stephenson	Purchase Order Quote #:	r#:			DW PWS ID #: DW Location Code:						(A) (A)					Correc Suffic	es Intact Y N NA ct Bottles Y N NA cient Volume Y N NA es Received on Ice Y N NA	
Collected By (signature):	Turnaround Da	te Requir	1	"\			rediately Packed on Ice:						꾀			VOA - USDA	Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA	
Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold:	Rush: [] San [] 2 Day [ne Day] 3 Day	[] Next Da	ay	Field Filtered (if applicable): Field Filtered (if applicable):				-	- 10 10 10 10 10 10 10 10 10 10 10 10 10			SiQ)			Resid Cl St Sampl pH St	ual Chlorine Present Y N NA rips: e pH Acceptable Y N NA rips: de Present Y N NA	
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)								ر [3)	13		عرد			Lead .	Acetate Strips:		
Customer Sample ID	Matrix *	Comp / Grab	Collect Composi Date	ted (or ite Start)	Compo:	site End	Res Cl	# of Ctns	C.	W W	Sul	Toc	Metads			Lab S	ample # / Comments:	
mw-1	GW	G	8/12/22					9	M	X	X	X	\boxtimes					
MM-P	GW	C ₁	12/12/22					9	Ìй	~	20					00	ည်	
MW-7	GW	<u>a</u>	8/12/22					9	Ñ	\propto	∞	\times	X		15000	00	3	
MW-13	GW	9	8/12/22					9	V	∞	∞	20	∞			00	Ŭ	
MW-17	GW	Q	8/12/22					१	X	∞	X	X	X) \$	
TRIP	BUW						<u> </u>	1	20	×	X	X	X		1000) (
						<u> </u>	-	<u> </u>										
													4.3					
Customer Remarks / Special Conditions / Possible Hazards			Type of Ice Used: Wet Blue Dry None Packing Material Used:							SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Tracking #: 2825175						Lab Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: Cooler 1 Temp Upon Receipt:		
		Radchem sample(s) screened (<500 cpm): Y N NA							Samples received via: FEDEX UPS Client Courier Pace Courier						ace Courier	Cooler 1 Therm Corr. Factor:oC Cooler 1 Corrected Temp:oC		
Relinquished by/Company: (Signatu	Date	ate/Time: Received by/Company: (Signature)							Date/Time: MTJL LAB USE ONLY						Comments:			
			B/12/22 1500 (S Logistics							8/12/22 ISO 0 Table #:					1 2757 1			
CS Logistics			Received by Company: (Signature) 3/3/22 0845 Athony Wea					sle	Date/Time: 8/13/22 0845 Template: Prelogin:				288.8	late:		Trip Blank Received: Y N NA HCL MeOH TSP Other		
Relinquished by/Company: (Signature)			Received by/Company: (Signature)											PM: PB:			4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

Effective Date: 8/3/2022 AG2S AG5U AG4U AG4S AG1H BG1U AG1U Pace Lab# BG3U 250 mL clear glass unpres 019 818 017 015 013 22 011 010 900 008 900 005 2 003 902 2 020 016 214 \$ Exceptions to preservation check: (VO), Coliform, (TOC) TOX, TOH, O&G, WI DRO, Phenolics, Other: Client Name: GZA 500 mL amber glass H2SO4 100 mL amber glass unpres 120 mL amber glass unpres 125 mL amber glass H2SO4 1 liter amber glass HCL 1 liter clear glass AG1U All containers needing preservation have been checked and noted below: Myes Lab Lot# of pH paper: \0003\\\ 1 liter amber glass BG1U AG1H AG4S Glass AG4U AG5U Geo Env. AG2S BG3U BP3U BP3N BP3B BP3S BP1U BP1U 250 mL plastic unpres 250 mL plastic NaOH 1 liter plastic unpres 250 mL plastic HNO3 250 mL plastic H2SO4 BP3U Plastic BP3B BP3N BP3S Sample Preservation Receipt Form 40249349 VG9A DG9T □ No VG9U Vials VG9H VG9U DG9T VG9M VG9A VG9H Lab Std #ID of preservation (if pH adjusted): □N/A 40 mL clear vial HCL 40 mL amber Na Thio 40 mL clear ascorbic 40 mL clear vial MeOH 40 mL clear vial unpres 40 mL clear vial DI VG9M Ē VG9D Headspace in VOA Vials (>6mm): XVes JGFU JG9U Jars WGFU **WPFU** SP5T WPFU WGFU **J**G9U General **ZPLC** JGFU **ZPLC** 4 oz plastic jar unpres 9 oz amber jar unpres 4 oz amber jar unpres 4 oz clear jar unpres 100mL amber alass H2504 120 mL plastic Na Thiosulfate ziploc bag GN VOA Vials (>6mm) □ No □N/A *If yes look in headspace column completed: initial when NaOH pH ≥12 Date/ Time Page 1 of 2 pH after adjusted 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 2.5 / 5 / 10 2.5/5/10 2.5 / 5 / 10 2.5 / 5 / 10 2.5/5/10 2.5/5/10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5/5/10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 Volume <u>m</u>

DC#_Title: ENV-FRM-GBAY-0035 v02_Sample Preservation Receipt Form

Page 18 of 19

DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR

Effective Date: 5/16/2022

Sample Condition Upon Receipt Form (SCUR)

1-	^ ^ ~				Project #	1	
Client Name: 67	A Geokny	I <u>. </u>		WO# : 4	40249849		
Courier: CS Logistics	☐ Fed Ex ☐ Speede						
☐ Client	Pace Other:						
Tracking #:					•	40249849	
Custody Seal on Cooler/E	3ox Present:	no	Seals	intact:	yes 🗖 no		
Custody Seal on Samples	•				yes no		
	ubble Wrap 🔀 Bubb						
Thermometer Used S	SR - 115	Type o	of Ice:	Wet	Blue Dry None	Samples o	n ice Person examining contents:
• -	Jncorr: \ /Corr:	<u>6</u>		-			
	yes 💢 no		Biolo	gical 1	issue is Frozen:	l yes no	Date: 8/13/22 /Initials: 01
Temp should be above freezin Biota Samples may be receive		ry Ice.		:			Labeled By Initials:
Chain of Custody Present:		Yes	□No	□n/a	1.		0 - 1 - 2
Chain of Custody Filled Ou	ıt:	□Yes	25	□N/A	2.00 patt	- 8/	13122 al
Chain of Custody Relinquis	shed:	Yes	□No	□N/A	3.	_	
Sampler Name & Signature	e on COC:	XYes	□No	□n/a	4.		
Samples Arrived within Hol	ld Time:	Yes	□No	:	5.		
- VOA Samples froz	en upon receipt	□Yes	□No	:	Date/Time:		
Short Hold Time Analysis	s (<72hr):	□Yes	XΝο	-	6.		
Rush Turn Around Time	Requested:	□Yes	Жиo	:	7.		
Sufficient Volume:					8.		
For Analysis: 3	Yes □No MS/MSD	: □Yes	X No	□n/a			
Correct Containers Used:		XYes	□No	i i	9.		
-Pace Containers Used	Yes	□No	□n/a				
-Pace IR Containers Us	ed:	□Yes	□No	/XN/A			
Containers Intact:		YYes	□No		10.		
Filtered volume received for	or Dissolved tests	XYes	□No	□N/A	11.		
Sample Labels match COC) :	Yes	□No	□n/a	12.		
-Includes date/time/ID/A	Analysis Matrix:	<u> </u>	7				
Trip Blank Present:	**	YYes	□No	□n/a	13.		
Trip Blank Custody Seals F		X Yes	□No	□n/a			
Pace Trip Blank Lot # (if pu	urchased): <u>486</u>						
Client Notification/ Resol	-				f checked, see attac	hed form for additional comments	
Person Contacted:				_Date/	lime:		
Comments/ Resolution: _							
DM Daviewie de		- D		41	mariant the DES		and have married and the annual of the state of
PINI Review is documente	a electronically in LIM	s. By re	eeasir	ng the	project, the PM a	cknowledges the	ey have reviewed the sample logi